System CH - Technical Specifications

Testing Methods of Electronic Connectors Follow Below Military Standards:

Dielectric Withstanding Voltage	- Per MIL-STD-1344A method 3001.1
Contact Resistance	- Per MIL-STD-1344A method 3002.1
Insulation Resistance	- Per MIL-STD-1344A method 3003.1
Solderability	- Per MIL-STD-202F method 208D

0.80mm(.032") Center spacing Pin Headers

Electrical:
Current rating: 0.5 Amp
Dielectric Withstanding: 500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +85°C

Physical:
High temperature plastic , Color Black
Flammability Rating: UL 94V-0
Contacts: Copper alloy
Contact plating: Gold flash over Nickel
Please see ordering code for plating options

1.27mm(.050") Center spacing Pin Headers

Electrical:
Current rating: 1 Amp
Dielectric Withstanding: 600 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +85°C

Physical:
High temperature plastic , Color Black
Flammability Rating: UL 94V-0
Contacts: Copper alloy
Contact plating: Gold flash over Nickel
Please see ordering code for plating options

2.00mm(.079") Center spacing Pin Headers

Electrical:
Current rating: 1 Amp
Dielectric Withstanding: 1000 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

Physical:
DIP Type Header: Glass Filled Polyester , Color Black
SMT Type Header:
High temperature plastic , Color Black
Flammability Rating: UL 94V-0
Contacts: Brass
Contact plating: Gold flash over Nickel
Please see ordering code for plating options

2.54mm(.100") Center spacing Pin Headers

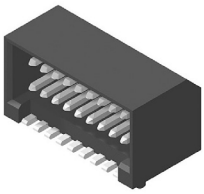
Electrical:
Current rating: 3 Amp
Dielectric Withstanding: 1500 VAC for one minute
Contact Resistance: < 20 mΩ
Insulation Resistance: > 1000 MΩ
Operating Temperature: -40°C - +105°C

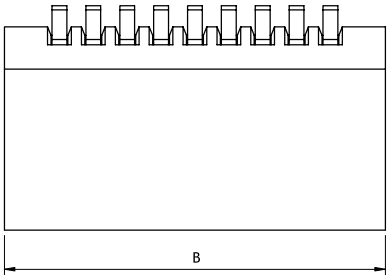
Physical:
DIP Type Header: Glass Filled Polyester , Color Black
SMT Type Header:
High temperature plastic , Color Black
Flammability Rating: UL 94V-0
Contacts: Brass
Contact plating: Gold flash over Nickel
Please see ordering code for plating options

CHC3 Series 0.80mm(.032") Dual Row SMT Pin Headers

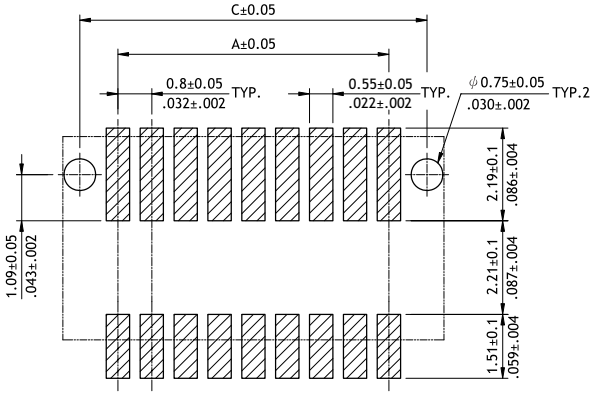
◎ Mate with CBC3 Series
◎ SMT Tail
◎ With mounting Pegs
◎ High temperature plastic, Color Black

RoHS Compliant

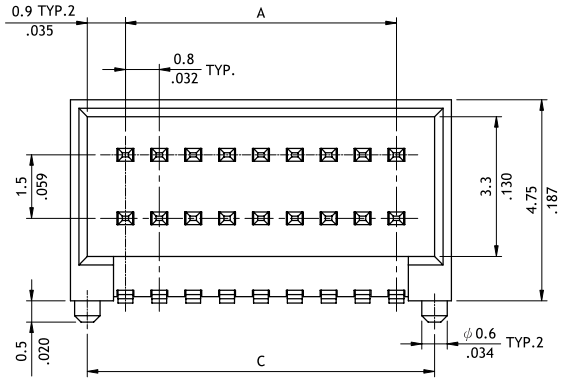


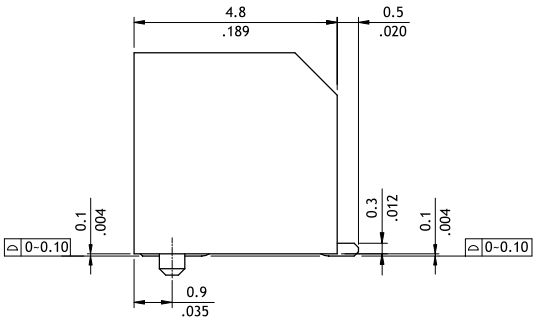


A = 0.8 x No. of Spaces
B = A + 2.6
C = A + 1.8



Recommended P.C. Board Layout





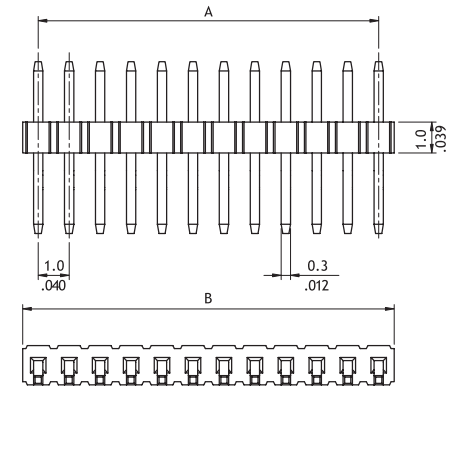
Ordering Code

❶	❷	❸	❹	❺	❻	❼
CHC3	36	2	M	1	R	0

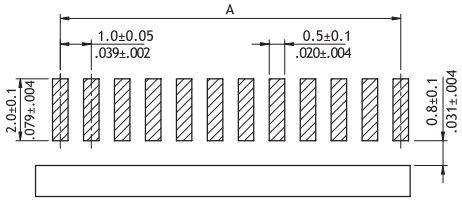
❶ Series No.
❷ No. of Circuits: 06 to 36
❸ Plating Code:
1 = Tin over Nickel
2 = Gold flash over Nickel
❹ Tail & Mounting Style: M = SMT Type
❺ Color: 1 = Black
❻ Packing Options:
R = Tape & Reel
T = Tube
❼ Other Options:
0 = Standard
*Special options consult manufacturer

CH07 Series 1.00mm(.039") SMT Row Board Mount Connectors

◎ Mate with CB03 series



A = 1.0* No. of Spaces
B = A + 1.0



Recommended P.C. Board Layout

Ordering Code

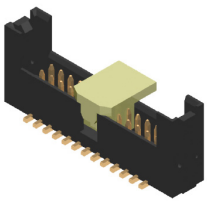
❶	❷	❸	❹	❺	❻		❼
CH07	10	2	T	1	00	–	NH

❶ Series No.
❷ No. of Circuits: 02 to 50
❸ Plating Code:
2 = Gold flash over 1.27 μm (50 μ") Nickel
❹ Tail Style: T = Side Entry SMT Type
❺ Color: 1 = Black
❻ Pin Length Options:
❼ -NH = For Lead Free IR process and Halogen-Free

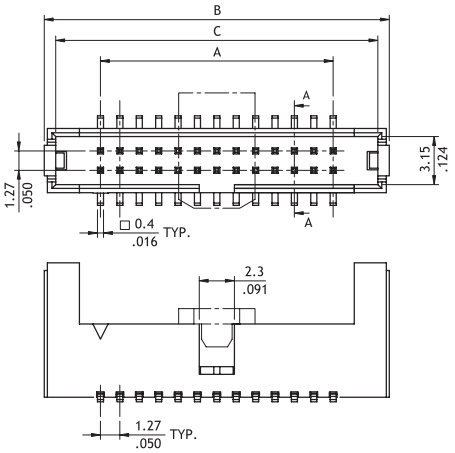
CH06 Series 1.27mm(.049") Straight SMT Dual Row Shrouded Headers

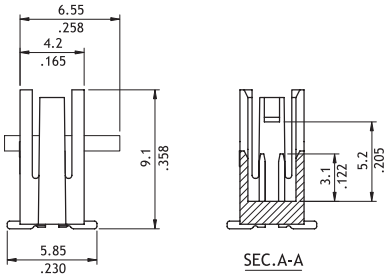
◎ Mate with CA02 series
◎ Box type with positive locking latch
◎ With polarizing slot

RoHS Compliant Pb HF



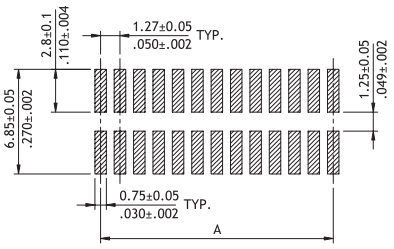
3D





SEC.A-A

Circuits	Dimension		
	A	B	C
6	2.54(.100)	9.91(.390)	8.40(.331)
14	7.62(.300)	14.99(.590)	13.48(.531)
26	15.24(.600)	22.61(.890)	21.10(.831)



Recommended P.C. Board Layout

Ordering Code

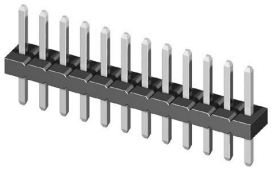
❶	❷	❸	❹	❺	❻		❼
CH06	26	2	M	A	L0	–	NH

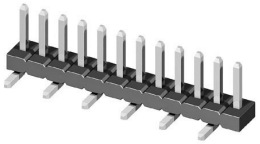
❶ Series No.
❷ No. of Circuits: 6, 14, 26
❸ Plating Code:
2 = Gold flash over 1.27 μm (50 μ") Nickel
❹ Tail Style: M = SMT Type
❺ Color: A = Black
❻ Other Options: L0 = Latch Type
❼ -NH = For Lead Free IR process and Halogen-Free

CH01 Series 1.27mm(.050") Single Row Pin Headers

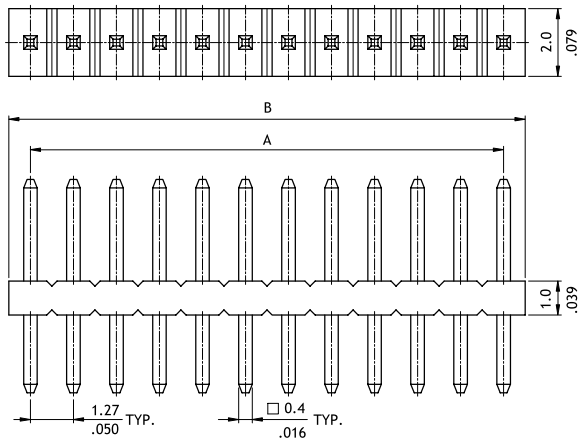
◎ Mate with CB01 series

RoHS Compliant Pb HF



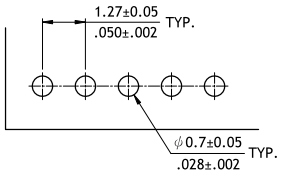


P/N	CH01**2V100-NH



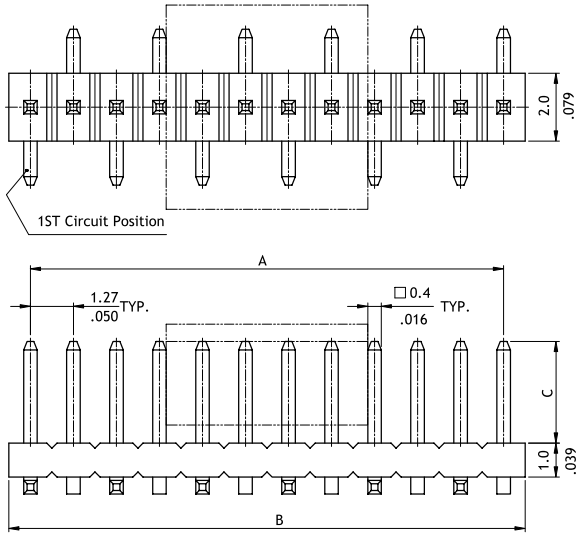
A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

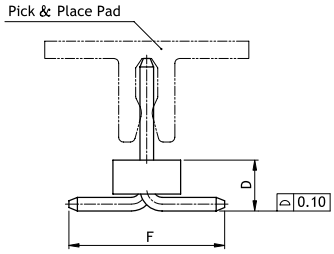
Option Code	Pin Dimension	
	C	D
00	3.0(.118)	2.3(.091)
01	3.0(.118)	1.6(.063)
02	3.5(.138)	1.8(.071)
03	3.8(.150)	1.5(.059)



Recommended P.C. Board Layout

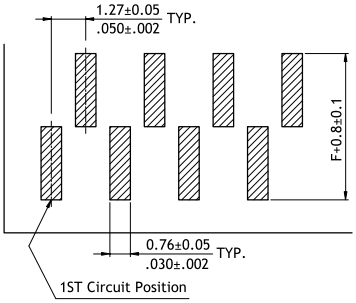
P/N	CH01**2M100-**-NH





A = 1.27 X No. of Spaces
B = A + 1.27

Option Code	Pin Dimension		
	C	D	F
00	3.0(.118)	1.5(.059)	4.6(.181)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

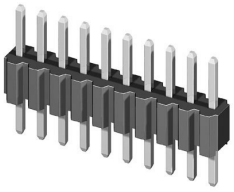
CH01 50 2 V 1 00 – 00 – NH

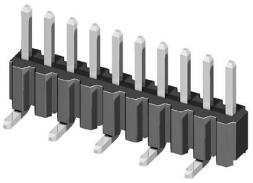
❶ Series No.
❷ No. of Circuits: 04 to 50
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style:
V = Vertical DIP Type
M = Vertical SMT Type
❺ Insulator Material & Color: 1 = LCP, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

CH02 Series 1.27mm(.050") Single Row Pin Headers

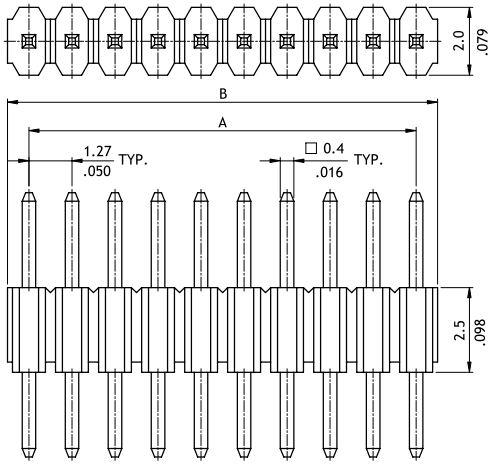
◎ Mate with CB01 series

RoHS Compliant



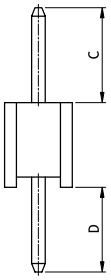


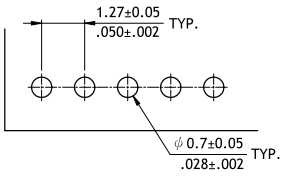
P/N	CH02**2V100



A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

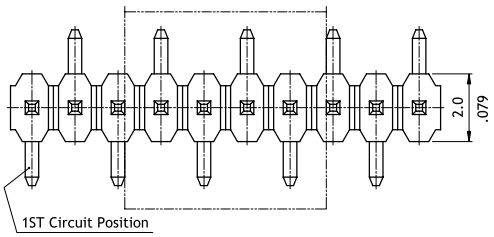
Option Code	Pin Dimension	
	C	D
00	3.0(.118)	2.3(.091)





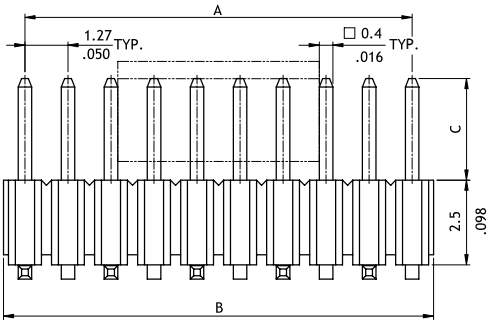
Recommended P.C. Board Layout

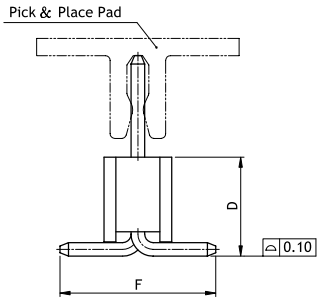
P/N	CH02**2M100-**

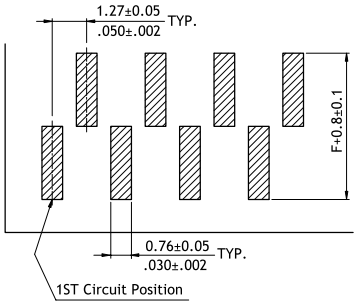


A = 1.27 X No. of Spaces
B = A + 1.27

Option Code	Pin Dimension		
	C	D	F
00	3.0(.118)	2.92(.115)	4.6(.181)
01	8.0(.315)	3.0(.118)	4.6(.181)







Recommended P.C. Board Layout

Ordering Code

❶	❷	❸	❹	❺	❻		❼
CH02	50	2	V	1	00	–	00

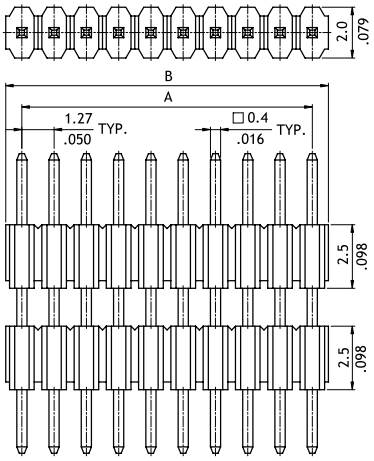
❶ Series No.
❷ No. of Circuits: 04 to 50
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style:
V = Vertical DIP Type
M = Vertical SMT Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only

CH03 Series 1.27mm(.050") Single Row Dual Bodies Pin Headers

◎ Mate with CB01 series

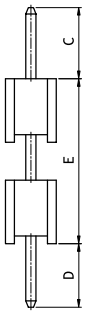
RoHS Compliant

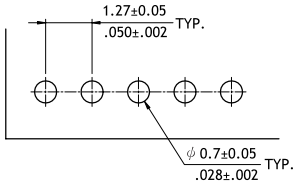
P/N	CH03**2V100



A = 1.27 X No. of Spaces
B = A + 1.27
E = 5.0 min.
Pin overall length 20.0mm max.

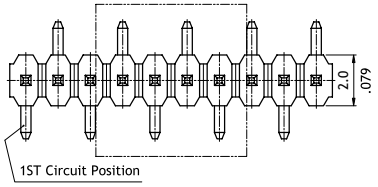
Option Code	Pin Dimension		
	C	D	E
00	3.0(.118)	2.3(.091)	5.0(.197)





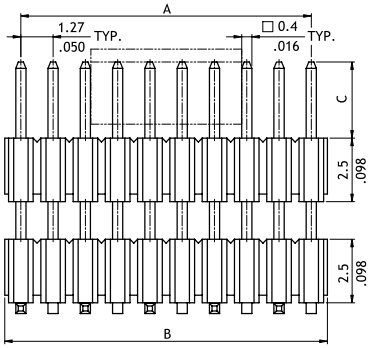
Recommended P.C. Board Layout

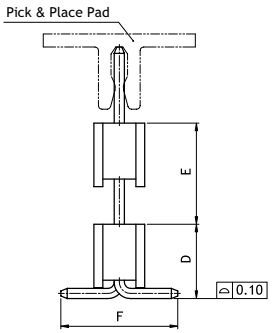
P/N	CH03**2M100-**

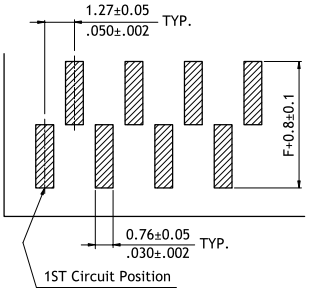


A = 1.27 X No. of Spaces
B = A + 1.27

Option Code	Pin Dimension			
	C	D	E	F
00	3.0(.118)	2.92(.115)	2.5(.098)	5.0(.197)







Recommended P.C. Board Layout

Ordering Code

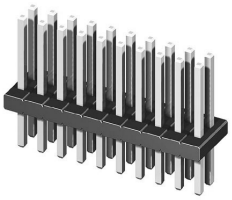
❶	❷	❸	❹	❺	❻		❼
CH03	50	2	V	1	00	–	00

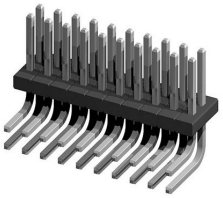
❶ Series No.
❷ No. of Circuits: 04 to 50
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style:
V = Vertical DIP Type
M = Vertical SMT Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only

CH51 Series 1.27mm(.050") Dual Row Pin Headers

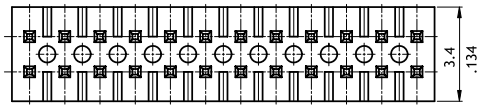
◎ Mate with CB50 and CBC1 series

RoHS Compliant Pb HF



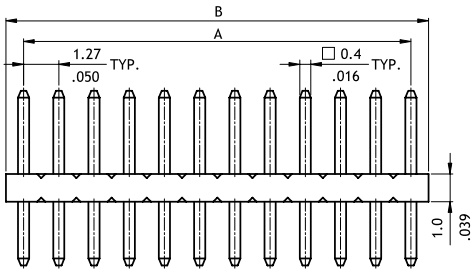


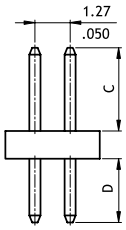
P/N	CH51**2V100-NH

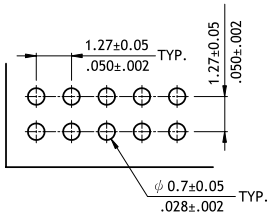


A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

Option Code	Pin Dimension	
	C	D
00	3.0(.118)	2.3(.091)

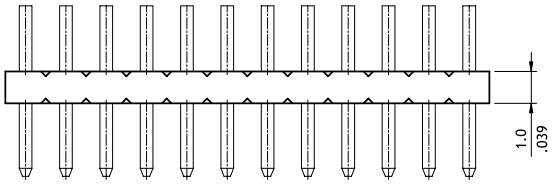






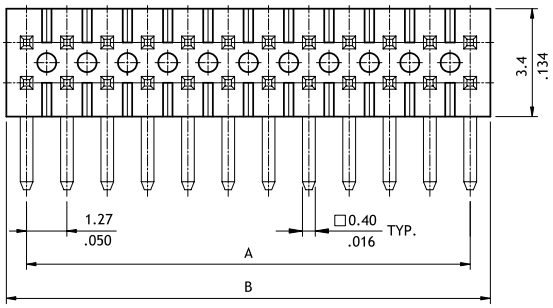
Recommended P.C. Board Layout

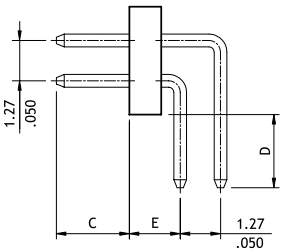
P/N	CH51**2H100-NH

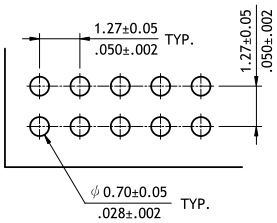


A = 1.27 X No. of Spaces
B = A + 1.27

Option Code	Pin Dimension		
	C	D	E
00	2.0(.079)	2.3(.091)	1.6(.063)







Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼

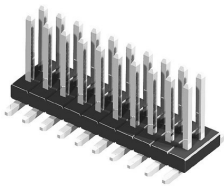
CH51 X1 2 V 1 00 – NH

❶ Series No.
❷ No. of Circuits: 06 to 100 (X1 = 100)
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Vertical DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color: 1 = LCP, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ -NH = For Lead Free soldering process and Halogen-Free

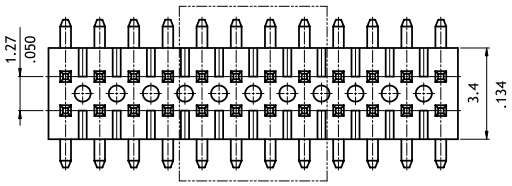
CH51 Series 1.27mm(.050") Dual Row Pin Headers

◎ Mate with CB50 and CBC1 series

RoHS Compliant Pb HF

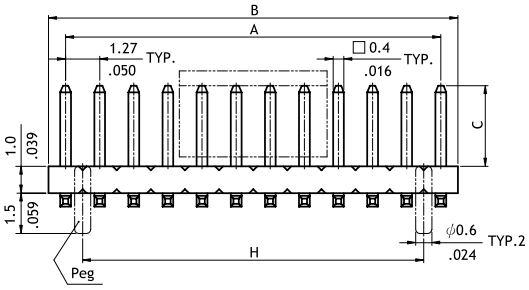


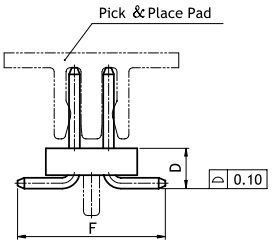
3D

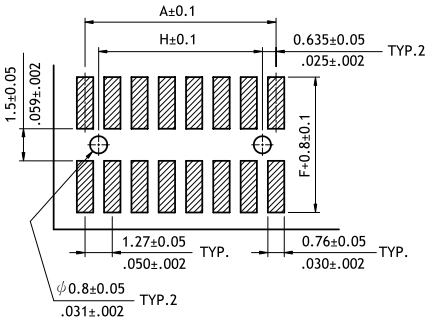


A = 1.27 X No. of Spaces
B = A + 1.27
H = A - 1.27

Option Code	Pin Dimension		
	C	D	F
00	3.0(.118)	1.5(.059)	5.5(.217)







Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

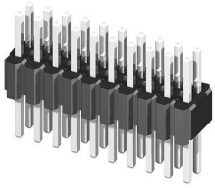
CH51 50 2 V 1 00 – 00 – NH

❶ Series No.
❷ No. of Circuits: 04 to 50
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style:
V = Vertical DIP Type
M = Vertical SMT Type
❺ Insulator Material & Color: 1 = LCP, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

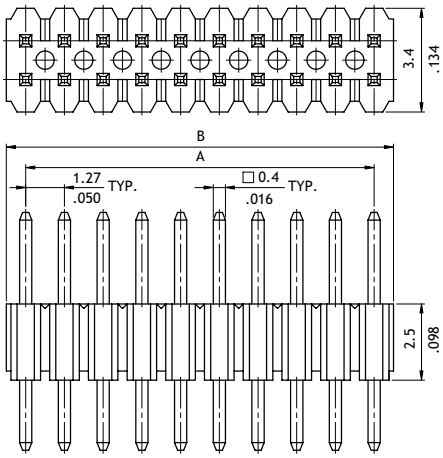
CH52 Series 1.27mm(.050") Dual Row Pin Headers

◎ Mate with CB50 and CBC1 series

RoHS Compliant

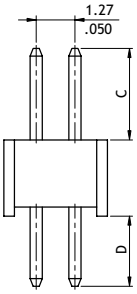


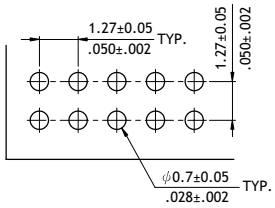
P/N	CH52**2V100



A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

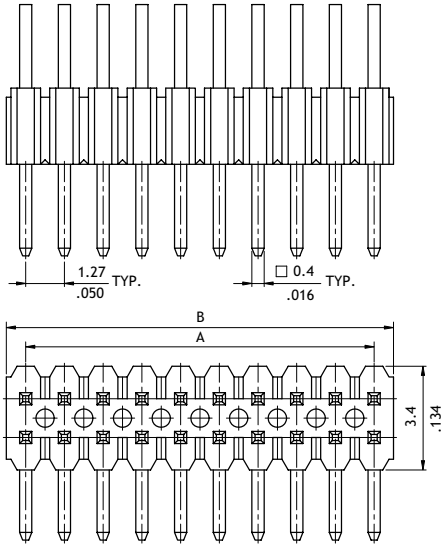
Option Code	Pin Dimension	
	C	D
00	3.0(.118)	2.3(.091)





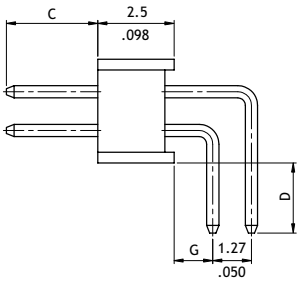
Recommended P.C. Board Layout

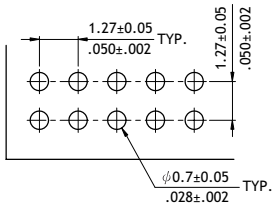
P/N	CH52**2H100



A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

Option Code	Pin Dimension		
	C	D	E
00	3.0(.118)	2.3(.091)	1.27(.050)





Recommended P.C. Board Layout

Ordering Code

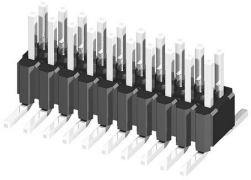
❶	❷	❸	❹	❺	❻
CH52	X1	2	V	1	00

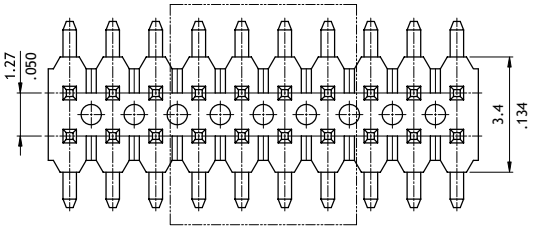
❶ Series No.
❷ No. of Circuits: 06 to 100 (X1 = 100)
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Vertical DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length

CH52 Series 1.27mm(.050") Dual Row SMT Pin Headers

◎ Mate with CB50 and CBC1 series

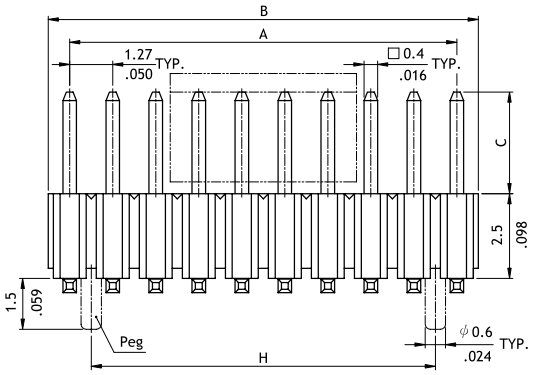
RoHS Compliant

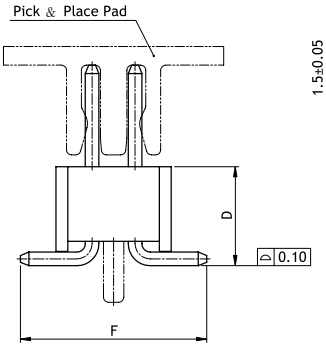


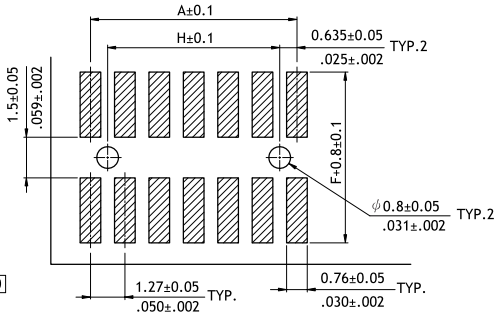


A = 1.27 X No. of Spaces
B = A + 1.27
H = A - 1.27

Option Code	Pin Dimension		
	C	D	E
00	3.0(.118)	2.92(.115)	5.5(.217)







Recommended P.C. Board Layout

Ordering Code

❶	❷	❸	❹	❺	❻		❼	❽
CH52	X1	2	M	1	00	–	0	0

❶ Series No.
❷ No. of Cirsuits: 06 to 100 (X1 = 100)
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: M = SMT Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length

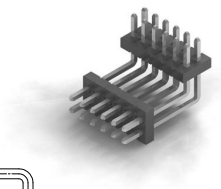
❼ Pegs Options:
0 = Without Peg
P = With Pegs

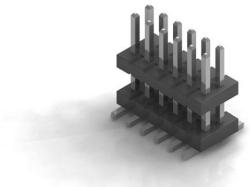
❽ Packing:
0 = Without Pick & Place Pad (Tube)
P = With Pick & Place Pad (Tape & Reel)

CH54 Series 1.27mm(.050") Dual Row Dual Bodies Pin Headers

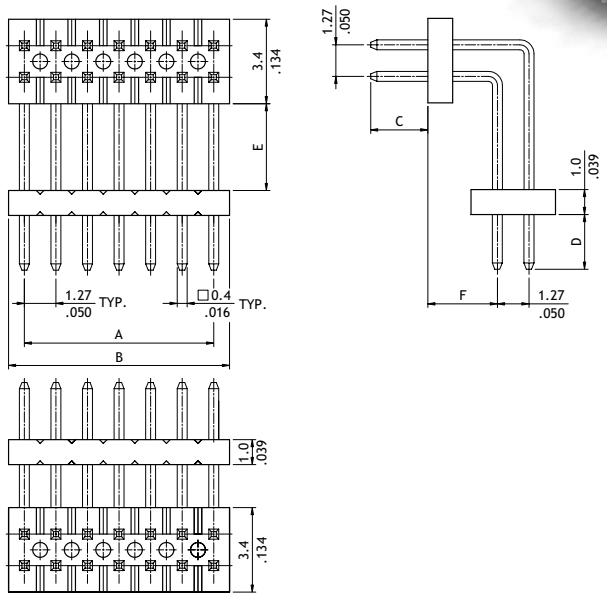
◎ Mate with CB50 and CBC1 series

RoHS Compliant Pb HF



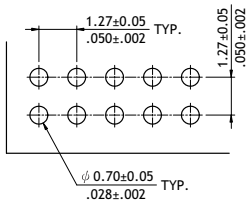


P/N	CH54**2H100-NH



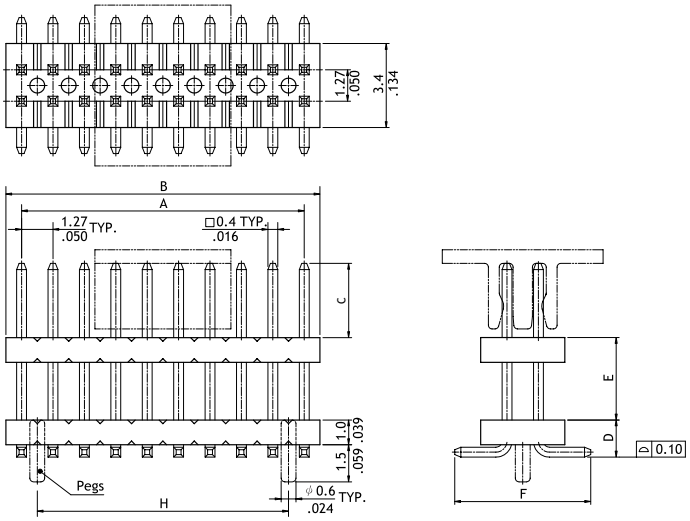
A = 1.27 X No. of Spaces
B = A + 1.27

Option Code	Pin Dimension			
	C	D	E	F
00	2.0(.079)	2.0(.079)	0.535(.021)	1.5(.059)



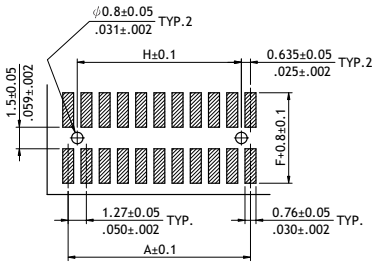
Recommended P.C. Board Layout

P/N	CH54**2M100-**-NH



A = 1.27 X No. of Spaces
B = A + 1.27
H = A - 1.27

Option Code	Pin Dimension			
	C	D	E	F
00	3.8(.118)	1.5(.059)	6.0(.236)	5.5(.216)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

CH54 X1 2 M 1 00 – 0 0 – NH

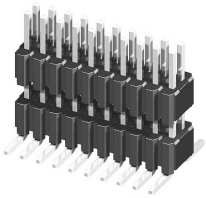
❶ Series No.
❷ No. of Cirsuits: 06 to 100 (X1 = 100)
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: H = Right Angle DIP Type
M = Vertical SMT Type
❺ Color: 1 = Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length

❼ Pegs Options: 0 = Without Peg
P = With Pegs
❽ Packing: 0 = Without Pick & Place Pad (Tube)
P = With Pick & Place Pad (Tape & Reel)
A = With Pick & Place Pad (Tube)
*Code 7 and 8 for SMT Type only
❾ -NH = For Lead Free soldering process and Halogen-Free

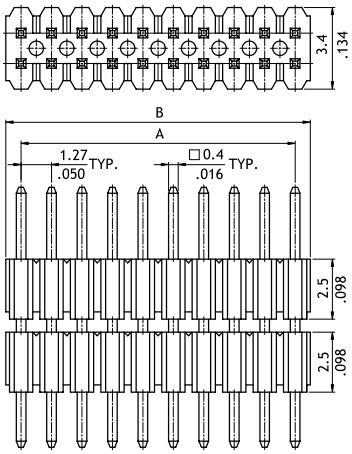
CH57 Series 1.27mm(.050") Dual Row Dual Bodies Pin Headers

◎ Mate with CB50 and CBC1 series

RoHS Compliant

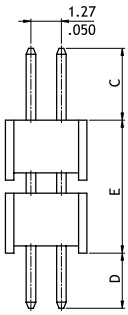


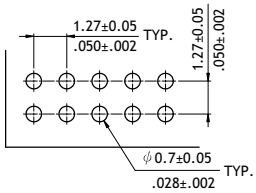
P/N	CH57**2V100



A = 1.27 X No. of Spaces
B = A + 1.27
Pin overall length 20.0mm max.

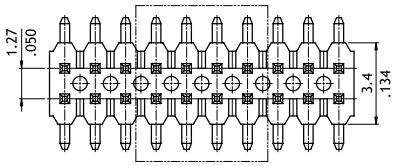
Option Code	Pin Dimension		
	C	D	E
00	3.0(.118)	2.3(.091)	5.0(.197)





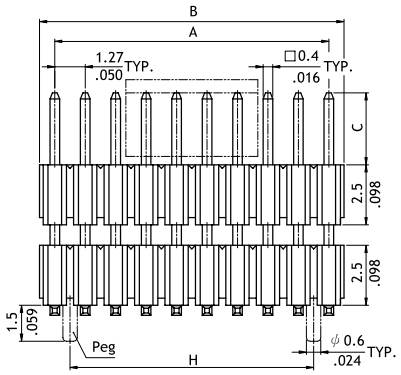
Recommended P.C. Board Layout

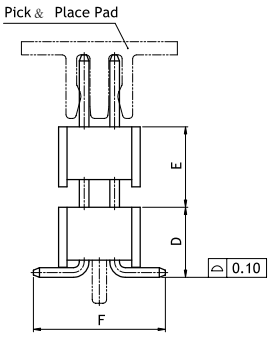
P/N	CH57**2M100-**

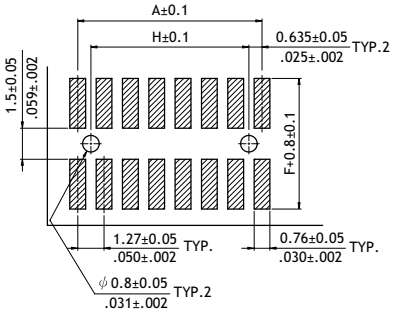


A = 1.27 X No. of Spaces
B = A + 1.27
H = A - 1.27

Option Code	Pin Dimension			
	C	D	E	F
00	3.0(.118)	2.92(.115)	2.5(.098)	5.5(.217)







Recommended P.C. Board Layout

Ordering Code

❶	❷	❸	❹	❺	❻		❼	❽
CH57	X1	2	V	1	00	–	0	0

❶ Series No.

❷ No. of Cirsuits:
06 to 100 (X1 = 100)

❸ Plating Code:
2 = Gold flash over Nickel

❹ Tail & Mounting Style:
V = Vertical DIP Type
M = Vertical SMT Type

❺ Insulator Material & Color:
1 = Nylon 6T, Color Black

❻ Other Options:
00 = Standard
*See option code table
*Consult manufacturer for customized pin length

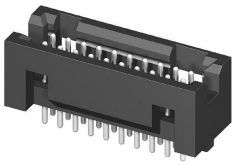
❼ Pegs Options:
0 = Without Peg
P = With Pegs

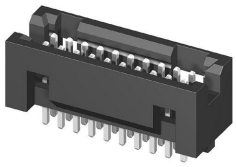
❽ Packing:
0 = Without Pick & Place Pad (Tube)
P = With Pick & Place Pad (Tape & Reel)
*Code 7 and 8 for SMT Type only

CHC2 Series 1.27mm(.050") Dual Row Pin Headers

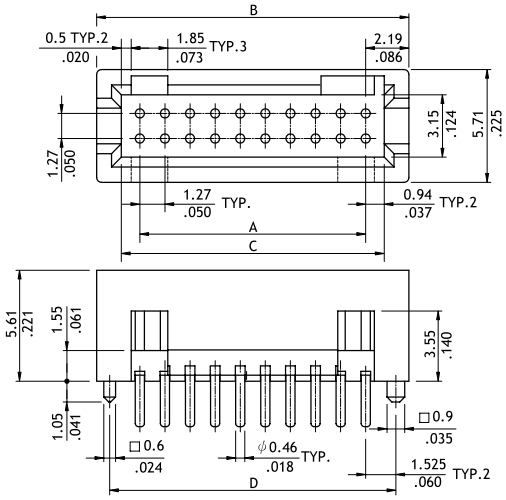
◎ Mate with CBC1 series

RoHS Compliant



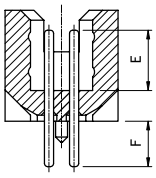


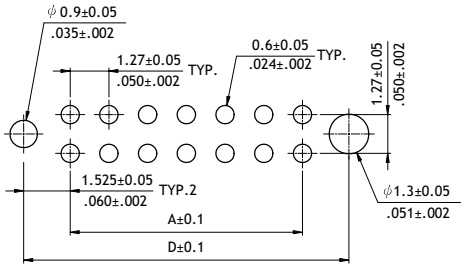
P/N	CHC2***V1**-1



A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88
D = A + 3.05

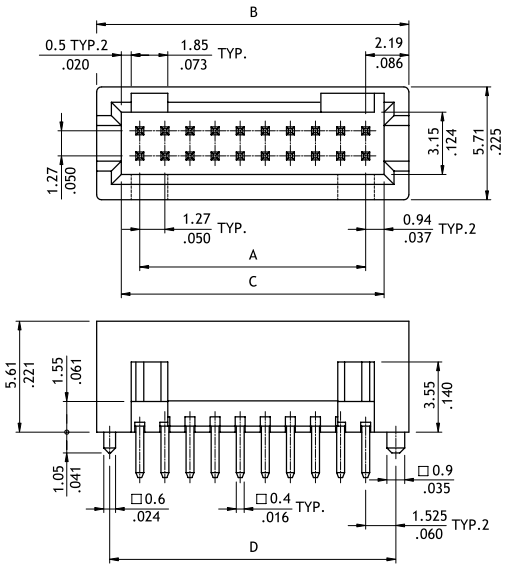
Option Code	Pin Dimension	
	E	F
00	3.0(.118)	2.3(.091)





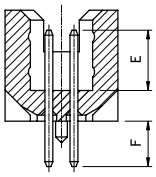
Recommended P.C. Board Layout

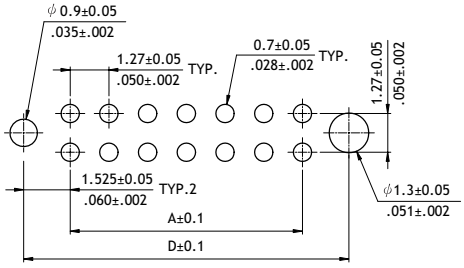
P/N	CHC2***V1**-2



A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88
D = A + 3.05

Option Code	Pin Dimension	
	E	F
00	3.0(.118)	2.3(.091)





Recommended P.C. Board Layout

Ordering Code

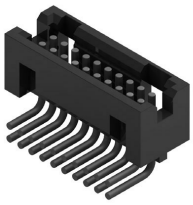
❶ CHC2 ❷ X1 ❸ 2 ❹ V ❺ 1 ❻ 00 – ❼ 1

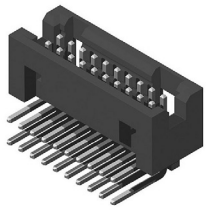
❶ Series No.
❷ No. of Cirsuits: 10 to 100 (X1 = 100)
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style:
V = Vertical DIP Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Pin Size:
1 = 0.46mm Round Pin
2 = 0.4mm Square Pin

CHC2 Series 1.27mm(.050") Dual Row Pin Headers

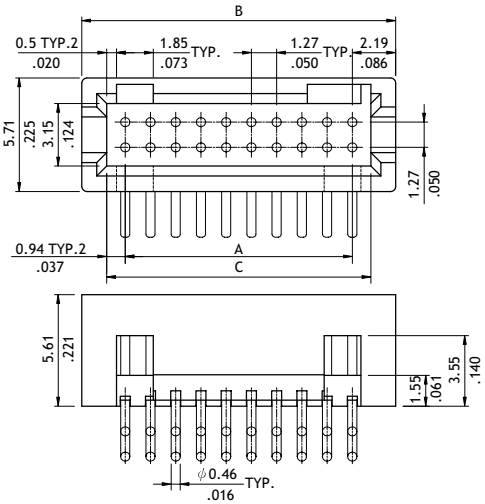
◎ Mate with CBC1 series

RoHS Compliant

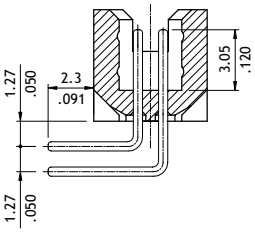


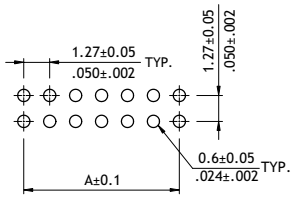


P/N	CHC2***H100-10



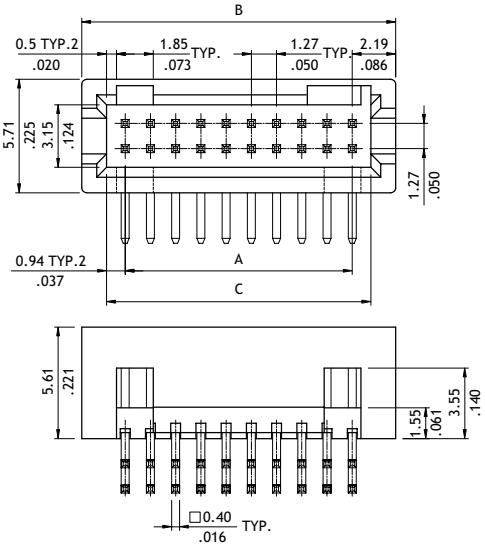
A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88



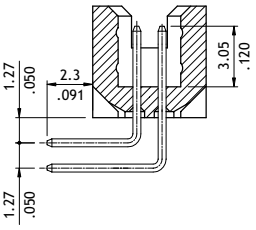


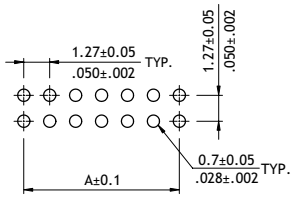
Recommended P.C. Board Layout

P/N	CHC2***H100-20



A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼

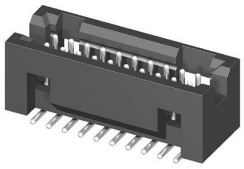
CHC2 X1 2 H 1 00 – 10

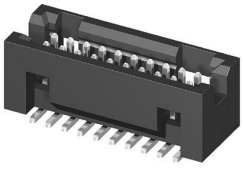
❶ Series No.
❷ No. of Cirsuits: 10 to 100 (X1 = 100)
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style:
H = Right Angle DIP Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Pin Size:
10 = 0.46mm Round Pin
20 = 0.4mm Square Pin

CHC2 Series 1.27mm(.050") Dual Row Pin Headers

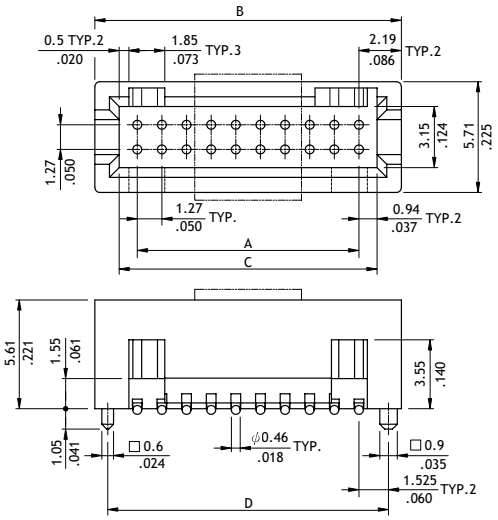
◎ Mate with CBC1 series

RoHS Compliant



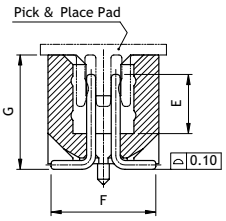


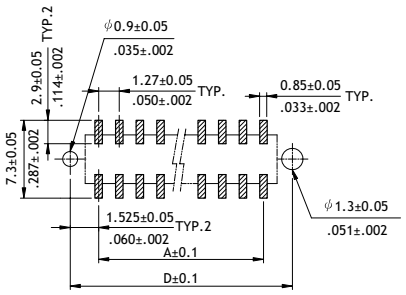
P/N	CHC2***M1**-1*



A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88
D = A + 3.05

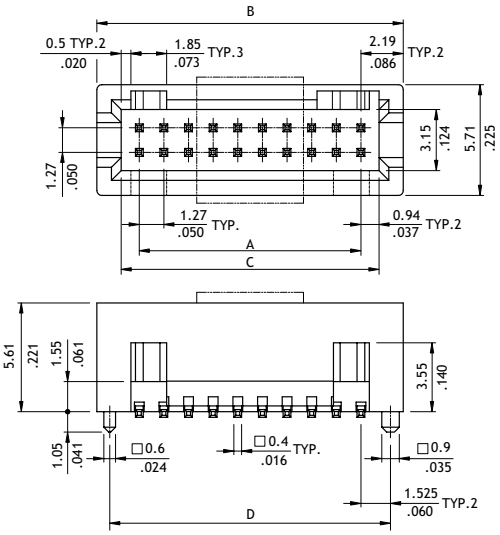
Option Code	Pin Dimension		
	E	F	G
00	3.05(.208)	5.4(.213)	5.9(.232)





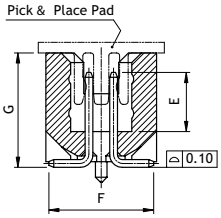
Recommended P.C. Board Layout

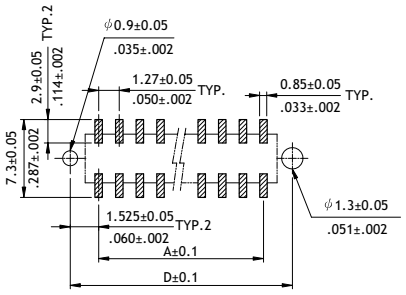
P/N	CHC2***M1**-2*



A = 1.27 X No. of Spaces
B = A + 4.38
C = A + 1.88
D = A + 3.05

Option Code	Pin Dimension		
	E	F	G
00	3.05(.208)	5.4(.213)	5.9(.232)





Recommended P.C. Board Layout

Ordering Code

❶	❷	❸	❹	❺	❻		❼	❽
CHC2	X1	2	M	1	00	–	1	0

❶ Series No.
❷ No. of Cirsuits: 10 to 100 (X1 = 100)
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: M = Vertical SMT Type
❺ Insulator Material & Color: 1 = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length

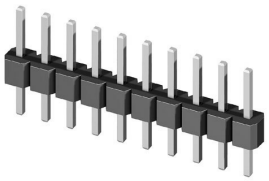
❼ Pin Size:
1 = 0.46mm Round Pin
2 = 0.4mm Square Pin

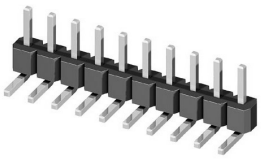
❽ Packing:
0 = Without Pick & Place Pad (Tube)
P = With Pick & Place Pad (Tape & Reel)

CH11 Series 2.00mm(.079") Single Row Pin Headers

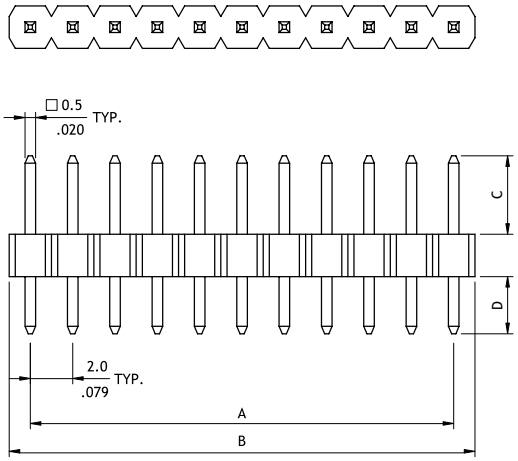
◎ Mate with CB22 series

RoHS Compliant



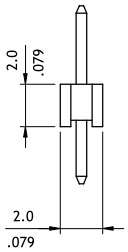


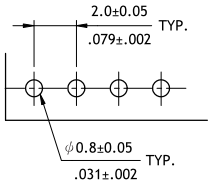
P/N	CH11**2VA00-NH



A = 2.0 x No. of Spaces
B = A + 2.0
Pin overall length 30.0mm max.

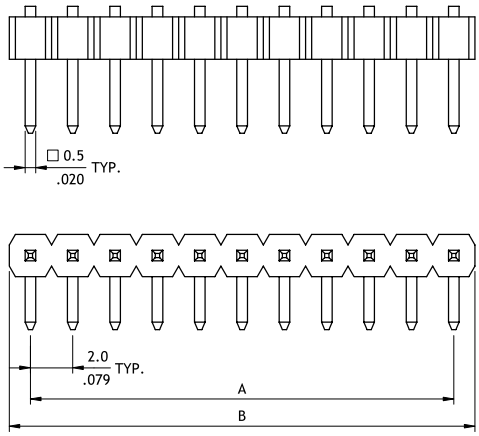
Option Code	Pin Dimension	
	C	D
00	3.9(.154)	2.8(.110)
01	6.8(.268)	3.0(.118)
02	9.0(.358)	2.0(.079)
03	8.0(.315)	3.0(.118)





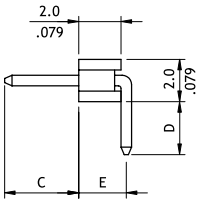
Recommended P.C. Board Layout

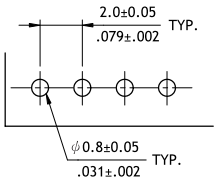
P/N	CH11**2HA00-NH



A = 2.0 x No. of Spaces
B = A + 2.0

Option Code	Pin Dimension		
	C	D	E
00	3.5(.138)	2.5(.098)	2.25(.089)





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼

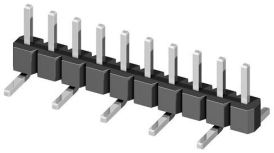
CH11 40 2 V A 00 – NH

❶ Series No.
❷ No. of Circuits: 02 to 40
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Straight DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color:
A = Nylon 6T UL 94V-0, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ -NH = For Lead Free soldering process and Halogen-Free
*Empty Code 7, if requesting non Halogen-Free material

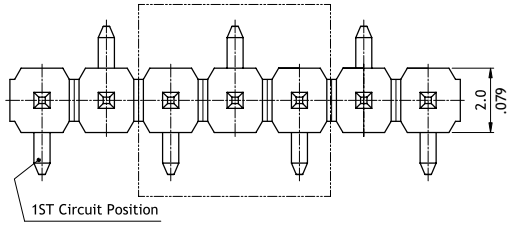
CH11 Series 2.00mm(.079") Single Row SMT Pin Headers

◎ Mate with CB22 series

RoHS Compliant Pb HF

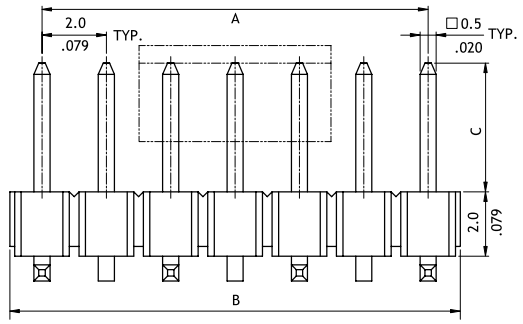


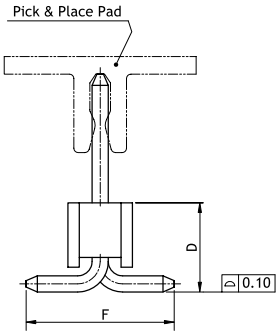
P/N	CH11**2M100-0*-NH

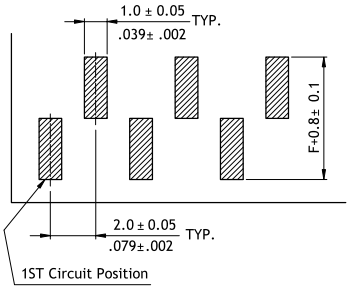


A = 2.0 x No. of Spaces
B = A + 2.0

Option Code	Pin Dimension		
	C	D	E
00	4.0(.157)	2.77(.109)	4.6(.181)
01	6.73(.265)	2.77(.109)	4.6(.181)

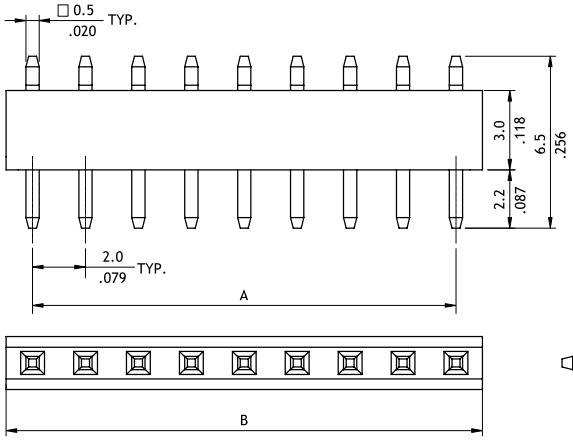




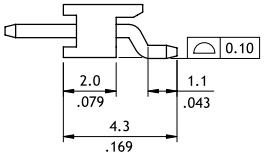


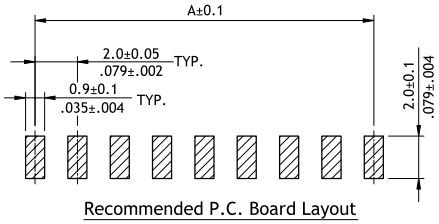
Recommended P.C. Board Layout

P/N	CH11**2SA01-NH



A= 2.0 x No. of Spaces
B= A + 2.0





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

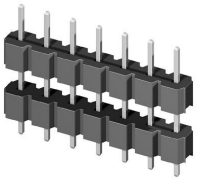
CH11 40 2 M 1 00 – 0 0 – NH

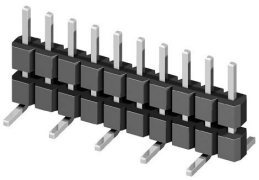
❶ Series No.
❷ No. of Cirsuits: 02 to 40
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail & Mounting Style: M = Top Entry SMT Type
S = Side Entry SMT Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black (for Top Entry)
A = LCP. Color Black (for Side Entry)
❻ Other Options: 00 = Standard (for Top Entry)
01 = Standard (for Side Entry)
*See option code table
*Consult manufacturer for customized pin length
❼ Pin Size: 0 = Original design
❽ Packing: 0 = Without Pick & Place Pad (Tube)
P = With Pick & Place Pad (Tape & Reel)
*Code 7 and 8 for Top Entry Type only
❾ -NH = For Lead Free IR process and Halogen-Free

CH21 Series 2.00mm(.079") Single Row Dual Bodies Pin Headers

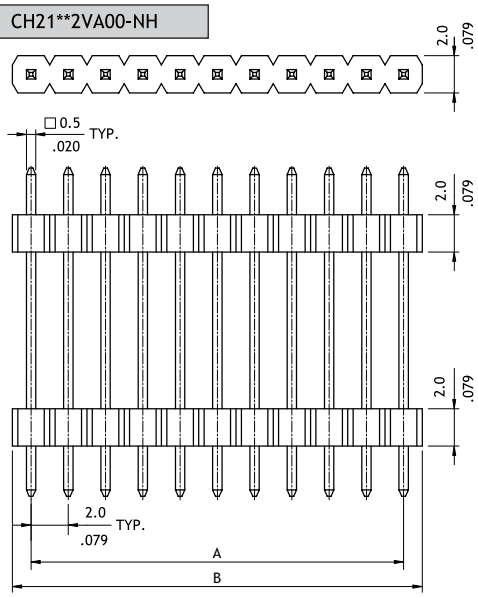
◎ Mate with CB22 series

RoHS Compliant Pb HF



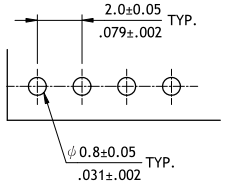


P/N CH21**2VA00-NH



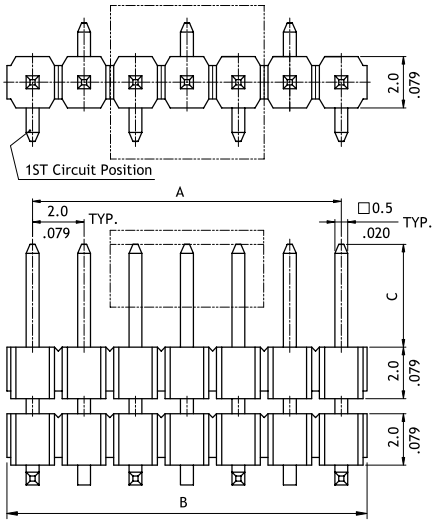
A = 2.0 x No. of Spaces
B = A + 2.0
Pin overall length 30.0mm max.

Option Code	Pin Dimension		
	C	D	E
00	4.0(.157)	2.5(.098)	11.6(.457)
01	3.55(.140)	2.55(.100)	9.55(.376)



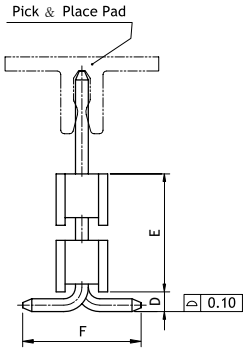
Recommended P.C. Board Layout

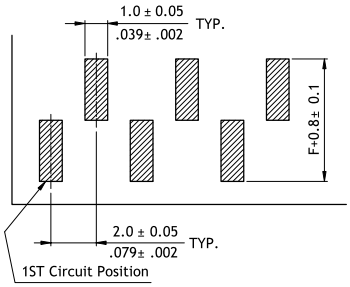
P/N CH21**2M100-0*-NH



A = 2.0 x No. of Spaces
B = A + 2.0

Option Code	Pin Dimension			
	C	D	E	F
00	4.0(.157)	0.77(.030)	4.0(.157)	4.6(.181)
01	2.5(.098)	0.75(.029)	10.0(.394)	4.6(.181)





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

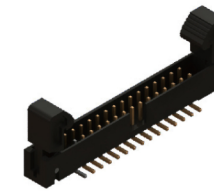
CH21 40 2 V 1 00 – 00 – NH

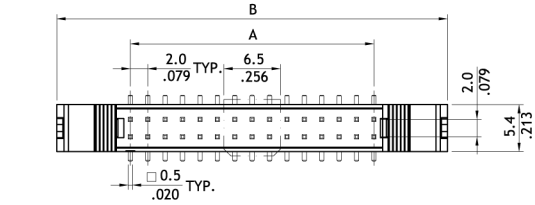
❶ Series No.
❷ No. of Circuits: 02 to 40
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Top Entry DIP Type
M = Top Entry SMT Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black (SMT)
A = Nylon 6T, Color Black (DIP)
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

CH70 Series 2.00mm(.079") Straight SMT Dual Row Shrouded Pin Headers

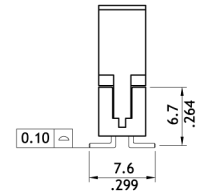
◎ Mate with CA11 series Flat Cable-IDC Socket

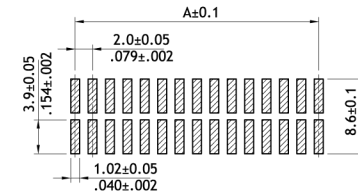
RoHS Compliant Pb





A = 2.0 * No. of Spaces
B = A + 16.9
C = A + 8.25





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻

CH70 50 D M 1 Y0

❶ Series No.
❷ No. of Circuits:
Without Pad: 08 to 50
With Pad: 10 to 50

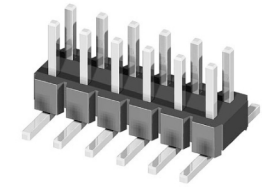
❸ Plating Code:
D = Selective 10μ" (0.25μm)
Gold plated over Nickel
❹ Tail Style: M = SMT Type

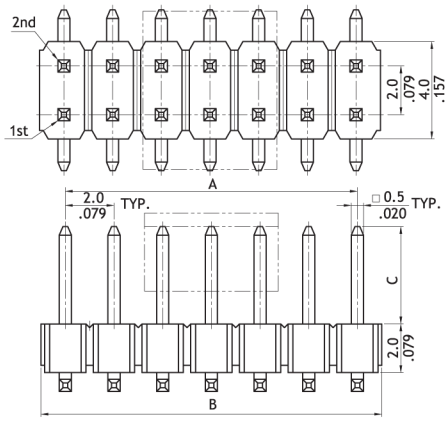
❺ Color: 1 = Black
❻ Other Options:
Y0 = Tray Packing (With Pad)
R0 = Tape & Reel (With Pad)

CH71 Series 2.00mm(.079") Dual Row SMT Pin Headers

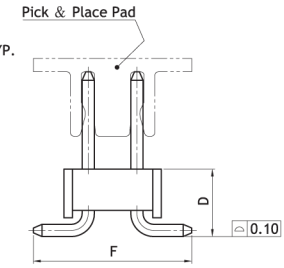
◎ Mate with CB74, CB76 and CB78 series

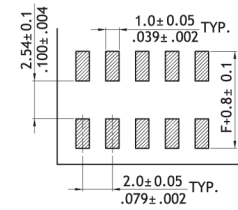
RoHS Compliant Pb HF





A = 2.0 x No. of Spaces
B = A + 2.0





Recommended P.C. Board Layout

Option Code	Pin Dimension		
	C	D	F
00	4.0(.157)	2.77(.109)	6.5(.256)
01	6.0(.236)	2.77(.109)	6.5(.256)

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

CH71 80 2 M 1 00 00 – NH

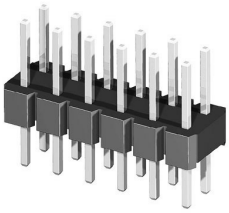
❶ Series No.
❷ No. of Circuits: 04 to 80
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail Style: M = Straight SMT Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black

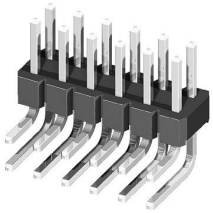
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing: 00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
❽ -NH = For Lead Free soldering process and Halogen-Free

CH71 Series 2.00mm(.079") Dual Row Pin Headers

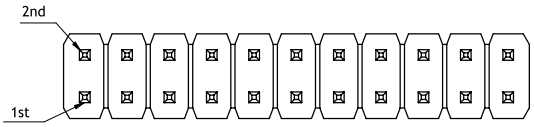
◎ With standoff prevent flux wicking
◎ Mate with CB74, CB76 and CB78 series

RoHS Compliant Pb HF



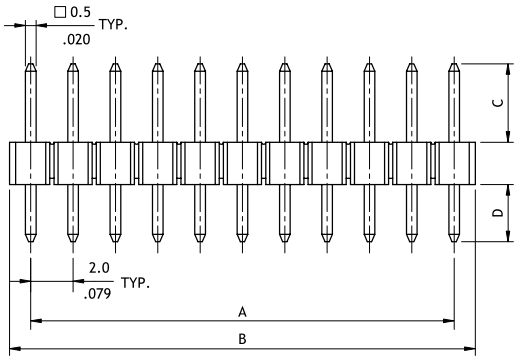


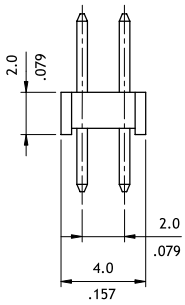
P/N	CH71**2VA00-NH

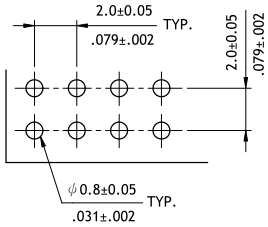


A = 2.0 x No. of Spaces
B = A + 2.0
Pin overall length 30.0mm max.

Option Code	Pin Dimension	
	C	D
00	3.9(.154)	2.8(.110)
01	6.8(.268)	3.0(.118)

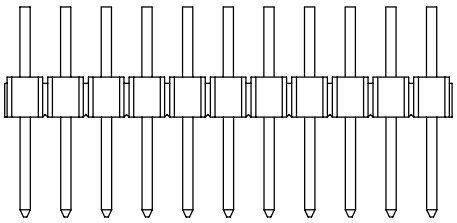






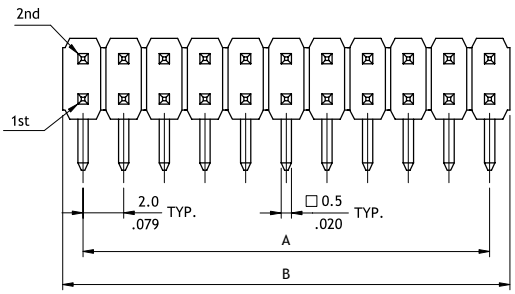
Recommended P.C. Board Layout

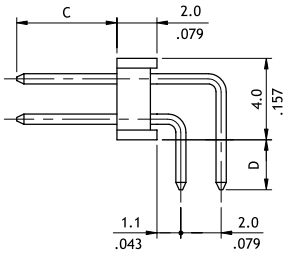
P/N	CH71**2HA00-NH

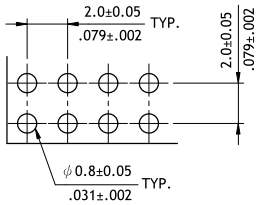


A = 2.0 x No. of Spaces
B = A + 2.0

Option Code	Pin Dimension		
	C	D	E
00	3.9(.154)	2.8(.110)	1.1(.043)
02	2.9(.114)	2.8(.110)	1.1(.043)







Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼

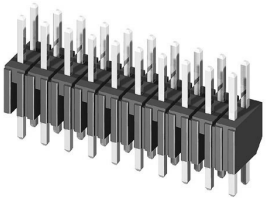
CH71 80 2 V A 00 – NH

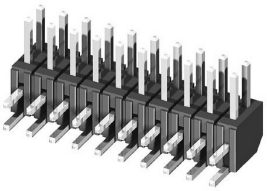
❶ Series No.
❷ No. of Circuits: 02 to 80
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail: V = Straight DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color:
A = Nylon 6T, Color Black
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ -NH = For Lead Free soldering process and Halogen-Free

CH72 Series 2.00mm(.079") Dual Row Pin Headers

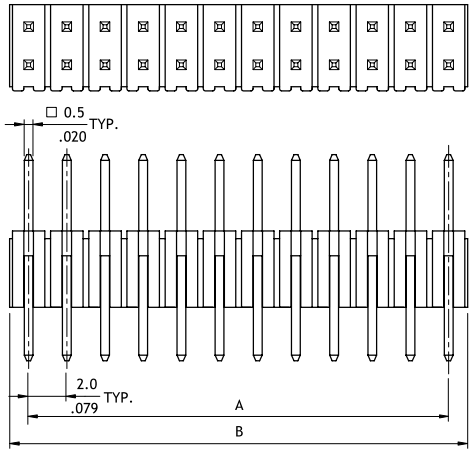
◎ Mate with CB74, CB78 series

RoHS Compliant

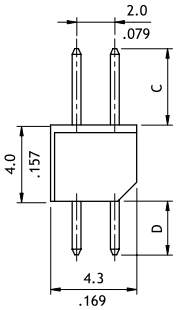




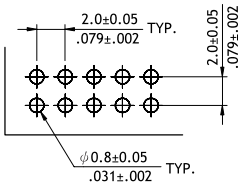
P/N	CH72**2V100



A = 2.0 * No. of Spaces
B = A + 2.0

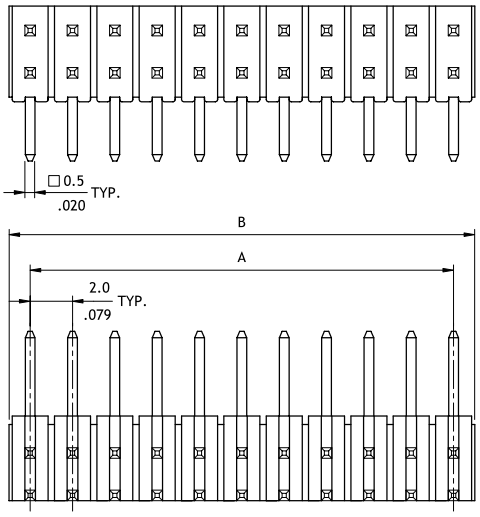


Option Code	Pin Dimension	
	C	D
00	4.0(.157)	2.8(.110)



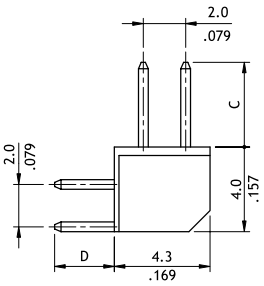
Recommended P.C. Board Layout

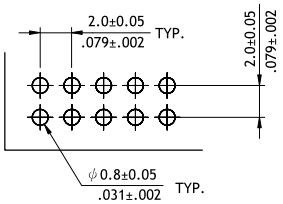
P/N	CH72**2H100



A = 2.0 * No. of Spaces
B = A + 2.00

Option Code	Pin Dimension	
	C	D
00	4.0(.157)	2.8(.110)





Recommended P.C. Board Layout

Ordering Code

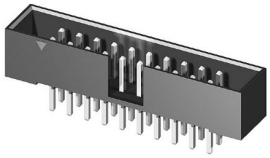
❶	❷	❸	❹	❺	❻
CH72	50	2	V	1	00

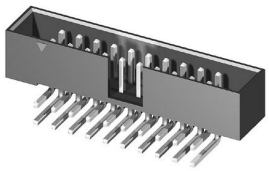
❶ Series No.
❷ No. of Circuits: 08 to 50
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail: V = Straight DIP Type
H = Right Angle DIP Type
❺ Color: 1 = Black
❻ Other Options:
00 = Standard
*See option code table

CH74 Series 2.00mm(.079") Dual Row Pin Headers

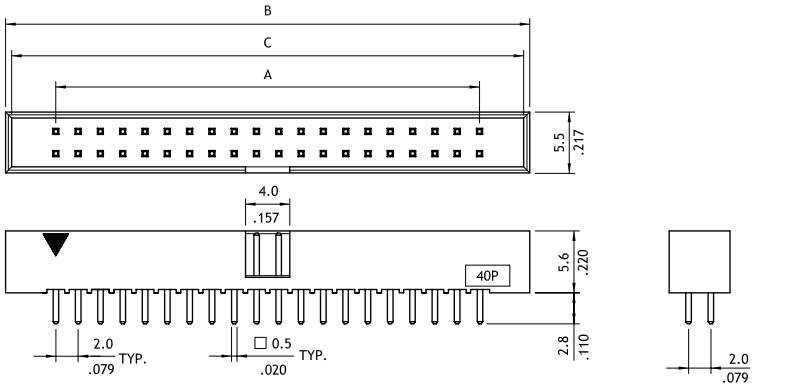
◎ Mate with CA11 series

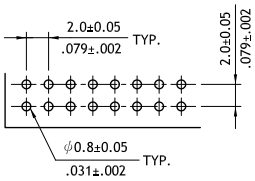
RoHS Compliant





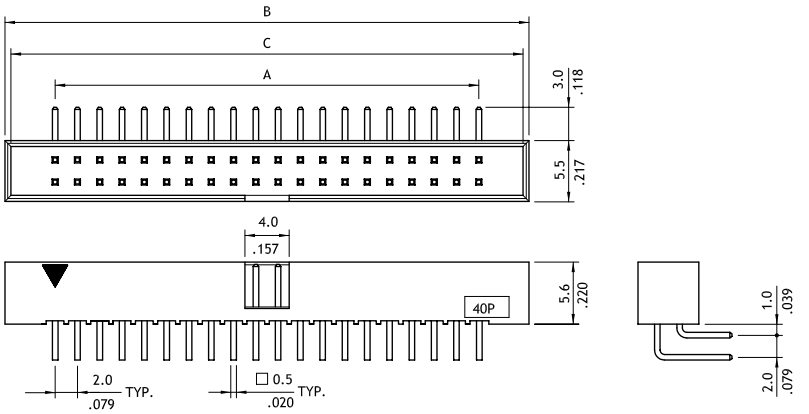
P/N	CH74**2V100





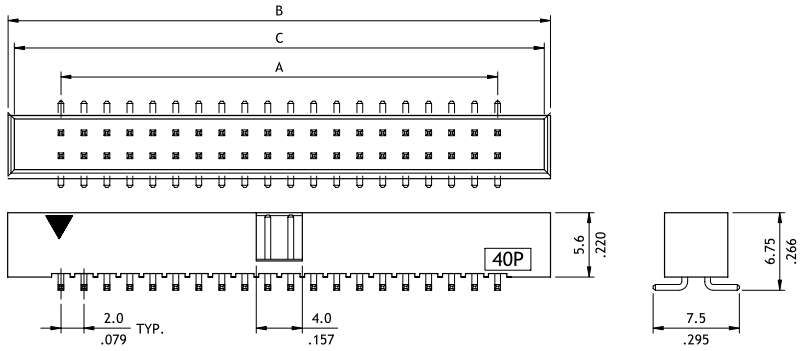
Recommended P.C. Board Layout

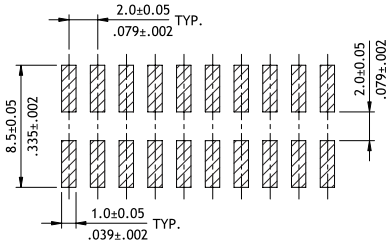
P/N	CH74**2H100



Circuits	Dimension		
	A	B	C
6	4.0(.157)	13.2(.520)	12.1(.476)
8	6.0(.236)	15.2(.598)	14.1(.555)
10	8.0(.315)	17.2(.677)	16.1(.634)
12	10.0(.394)	19.2(.756)	18.1(.713)
14	12.0(.472)	21.2(.835)	20.1(.791)
16	14.0(.551)	23.2(.913)	22.1(.870)
18	16.0(.630)	25.2(.992)	24.1(.949)
20	18.0(.709)	27.2(1.071)	26.1(1.028)
22	20.0(.787)	29.2(1.150)	28.1(1.106)
24	22.0(.866)	31.2(1.228)	30.1(1.185)
26	24.0(.945)	33.2(1.307)	32.1(1.264)
28	26.0(1.024)	35.2(1.386)	34.1(1.343)
30	28.0(1.102)	37.2(1.465)	36.1(1.421)
32	30.0(1.181)	39.2(1.543)	38.1(1.500)
34	32.0(1.260)	41.2(1.622)	40.1(1.579)
36	34.0(1.339)	43.2(1.701)	42.1(1.657)
40	38.0(1.496)	47.2(1.858)	46.1(1.815)
44	42.0(1.654)	51.2(2.016)	50.1(1.972)
50	48.0(1.890)	57.2(2.252)	56.1(2.209)
60	58.0(2.283)	67.2(2.646)	66.1(2.602)
64	62.0(2.441)	71.2(2.803)	70.1(2.760)
68	66.0(2.598)	75.2(2.961)	74.1(2.917)

P/N	CH74**2M100





Recommended P.C. Board Layout

Ordering Code

❶	❷	❸	❹	❺	❻
CH74	68	2	V	1	00

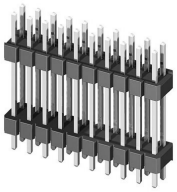
❶ Series No.
❷ No. of Circuits: 06 to 68
❸ Plating Code:
2 = Gold flash over Nickel

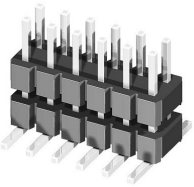
❹ Tail: V = Straight DIP Type
H = Right Angle DIP Type
M = SMT Type
❺ Color: 1 = Black
❻ Other Options: 00 = Standard
*See option code table

CH75 Series 2.00mm(.079") Dual Row Dual Bodies Pin Headers

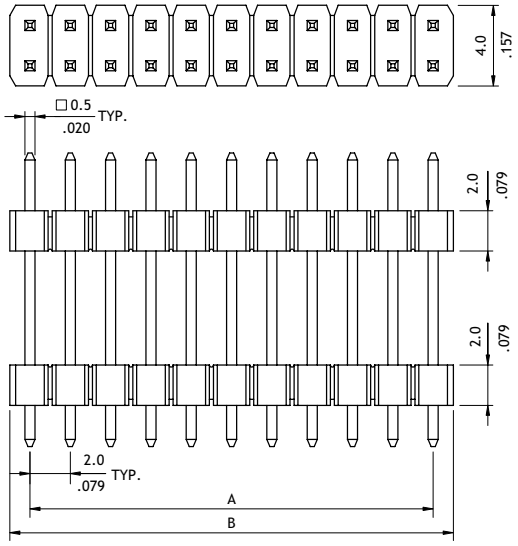
◎ Mate with CB74 and CB78 series

RoHS Compliant

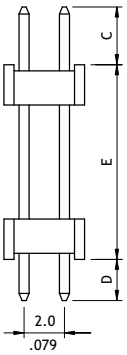




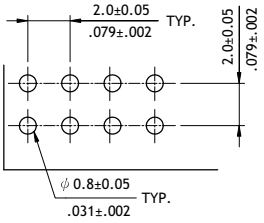
P/N CH75**2VA00-NH



A = 2.0 x No. of Spaces
B = A + 2.0
Pin overall length 30.0 max.

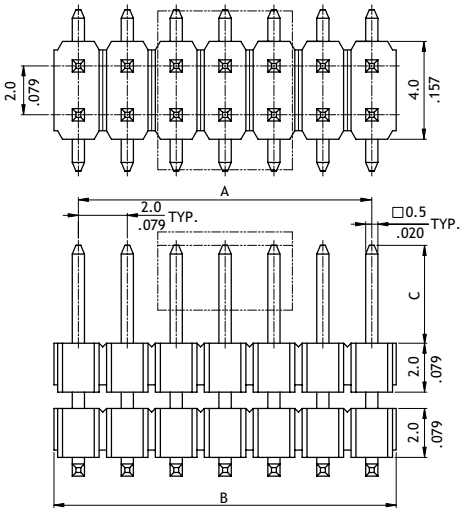


Option Code	Pin Dimension		
	C	D	E
00	4.0(.157)	2.5(.098)	11.60(.457)
01	3.55(.140)	2.55(.100)	9.55(.376)
02	4.0(.157)	2.5(.098)	9.30(.366)

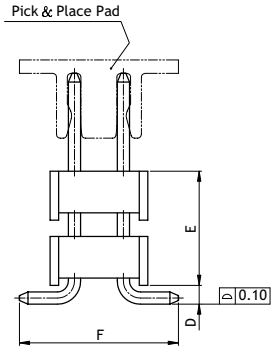


Recommended P.C. Board Layout

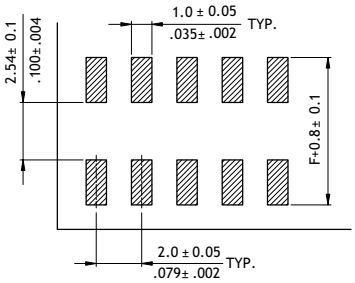
P/N CH75**2M100-**-NH



A = 2.0 x No. of Spaces
B = A + 2.0



Option Code	Pin Dimension			
	C	D	E	F
00	4.0(.157)	0.77(.030)	4.0(.157)	6.5(.256)
01	4.0(.157)	0.77(.030)	11.0(.433)	6.5(.256)
01	4.0(.157)	0.77(.030)	8.0(.315)	6.5(.256)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

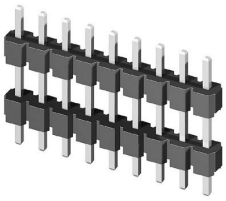
CH75 80 2 M 1 00 – 00 – NH

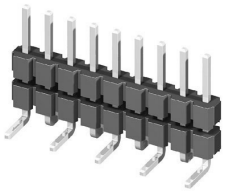
❶ Series No.
❷ No. of Circuits: 04 to 80
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Straight DIP Type
M = Straight SMT Type
❺ Insulator Color:
1 = Nylon 6T, Color Black (SMT)
A = Nylon 6T, Color Black (DIP)
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

CH34 Series 2.54mm(.100") Single Row Dual Bodies Pin Headers

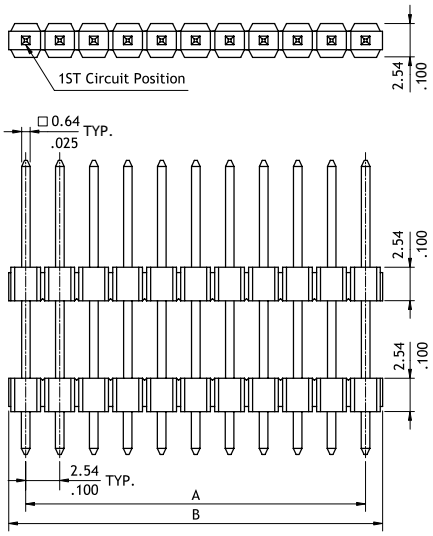
◎ Mate with CB33, CB37 and CB39 series

RoHS Compliant Pb HF

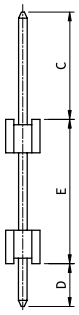




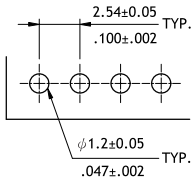
P/N	CH34**2VA00-NH



A = 2.54 x No. of Spaces
B = A + 2.36
Pin overall length 30.0mm max.

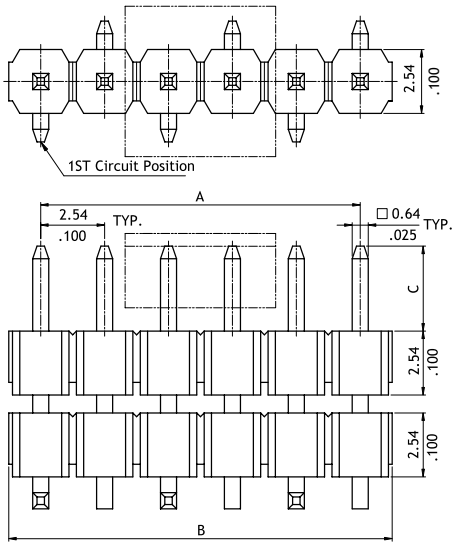


Option Code	Pin Dimension		
	C	D	E
00	10.30(.406)	3.20(.126)	12.00(.472)
01	3.15(.124)	3.15(.124)	9.00(.354)
02	3.40(.134)	3.00(.118)	9.60(.378)
03	7.00(.276)	3.00(.118)	18.00(.709)
04	3.00(.118)	3.00(.118)	6.00(.236)



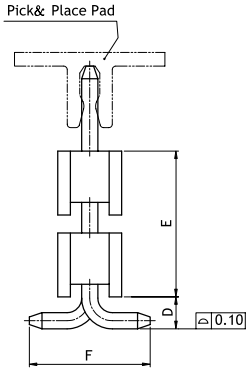
Recommended P.C. Board Layout

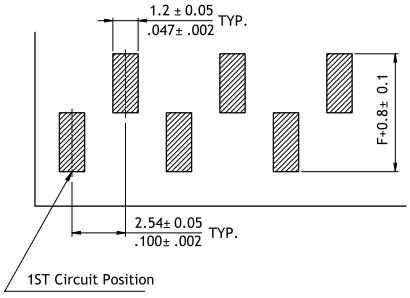
P/N	CH34**2M100-**-NH



A = 2.54 x No. of Spaces
B = A + 2.36

Option Code	Pin Dimension			
	C	D	E	F
00	6.0(.236)	1.27(.050)	5.08(.200)	4.8(.189)





Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

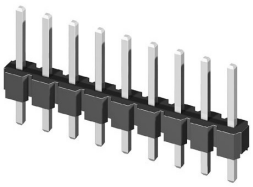
CH34 40 2 M 1 00 – 00 – NH

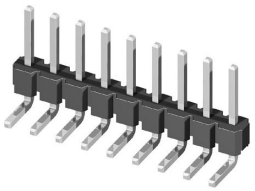
❶ Series No.
❷ No. of Circuits: 02 to 40
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Straight DIP Type
M = Straight SMT Type
❺ Insulator Color:
1 = Nylon 6T, Color Black (SMT)
A = Nylon 6T, Color Black (DIP)
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

CH31 Series 2.54mm(.100") Single Row Pin Headers

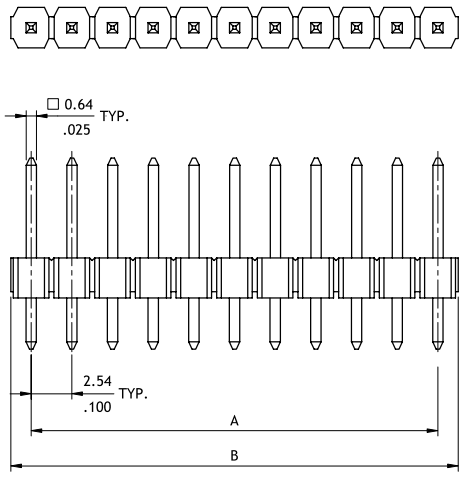
◎ Mate with CB33 , CB37 and CB39 series

RoHS Compliant Pb HF

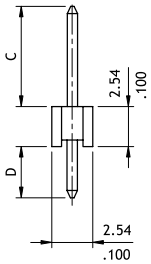




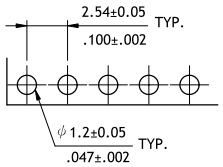
P/N	CH31**2VA00-NH



A = 2.54 x No. of Spaces
B = A + 2.36
Pin overall length 30.0mm max.

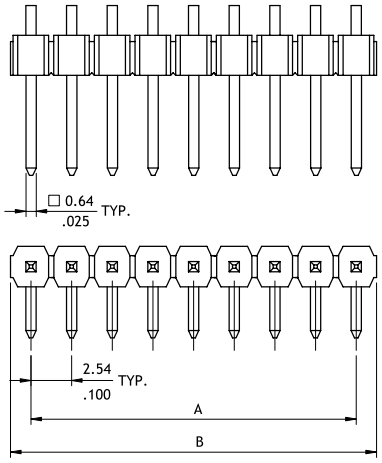


Option Code	Pin Dimension	
	C	D
00	6.0(.236)	3.0(.118)
01	6.26(.246)	3.0(.118)
02	5.86(.231)	3.0(.118)
03	8.86(.349)	3.0(.118)

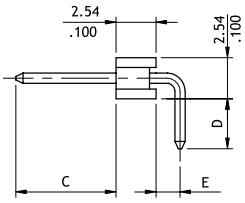


Recommended P.C. Board Layout

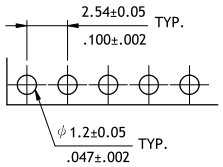
P/N	CH31**2HA00-NH



A = 2.54 x No. of Spaces
B = A + 2.36



Option Code	Pin Dimension		
	C	D	E
00	6.00(.236)	3.0(.118)	1.5(.059)
01	6.26(.246)	3.0(.118)	1.5(.059)
02	5.86(.231)	3.0(.118)	1.5(.059)
03	8.30(.327)	3.0(.118)	1.5(.059)
04	7.26(.286)	3.0(.118)	1.5(.059)



Recommended P.C. Board Layout

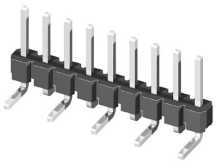
Ordering Code

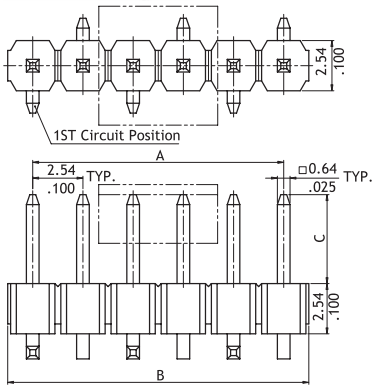
❶	❷	❸	❹	❺	❻		❼
CH31	40	2	V	A	00	–	NH

❶ Series No.
❷ No. of Circuits: 01 to 40
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail: V = Straight DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color:
A = Nylon 6T UL 94V-0, Color Black
❻ Other Options: 00 = Standard
*See option code tables
*Consult manufacturer for customized pin length
❼ -NH = For Lead Free soldering process and Halogen-Free

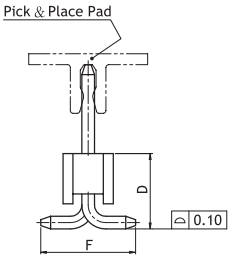
CH31 Series 2.54mm(.100") Single Row Pin Headers

◎ Mate with CB33, CB37 and CB39 series

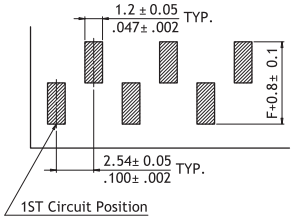




A = 2.54 x No. of Spaces
B = A + 2.36



Option Code	Pin Dimension		
	C	D	E
00	6.0(.236)	3.81(.150)	4.8(.189)
01	3.5(.138)	7.80(.307)	4.8(.189)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

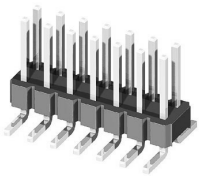
CH31 40 2 M 1 00 – 00 – NH

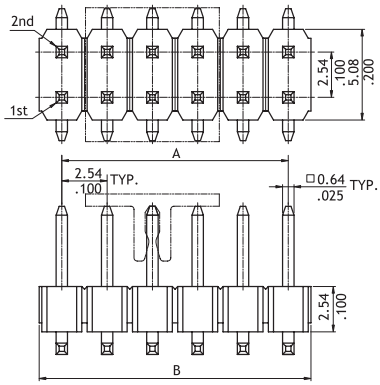
❶ Series No.
❷ No. of Circuits: 02 to 40
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail Style: M = SMT Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black

❻ Other Options: 00 = Standard
*See option consult manufacturer
*Consult manufacturer for customized pin length
❼ Packing: 00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
❽ -NH = For Lead Free soldering process and Halogen-Free

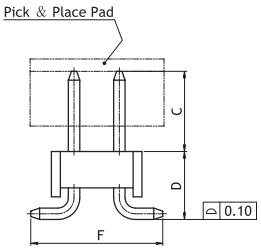
CH81 Series 2.54mm(.100") Dual Row SMT Pin Headers

◎ Mate with CB83, CB85, CB87, CB91, CB94, CB96 and CB97 series

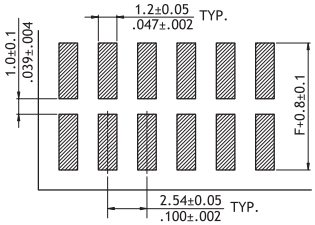




A = 2.54x No. of Spaces
B = A + 2.36



Option Code	Pin Dimension		
	C	D	E
00	8.80(.346)	3.4(.134)	7.4(.291)
01	6.0(.236)	3.4(.134)	7.4(.291)
02	6.0(.236)	3.81(.150)	7.4(.291)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

CH81 80 2 M 1 00 – 00 – NH

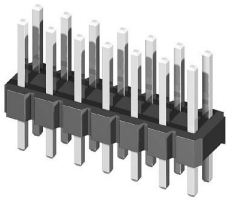
❶ Series No.
❷ No. of Circuits: 04 to 80
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail Style: M = Straight SMT Type
❺ Insulator Material & Color:
1 = Nylon 6T, Color Black

❻ Other Options: 00 = Standard
*See option consult manufacturer
*Consult manufacturer for customized pin length
❼ Packing: 00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
❽ -NH = For Lead Free soldering process and Halogen-Free

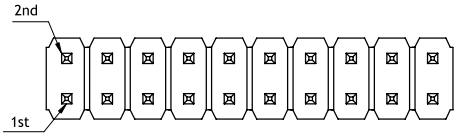
CH81 Series 2.54mm(.100") Dual Row DIP Pin Headers

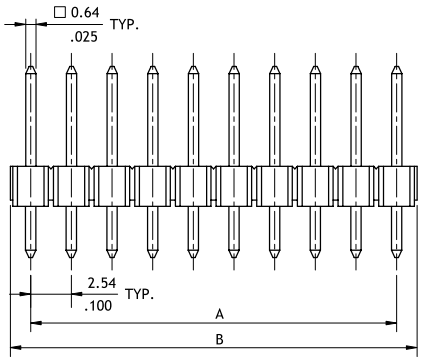
◎ Mate with CB83, CB85, CB87, CB91,CB96 and CB97 series

RoHS Compliant Pb HF

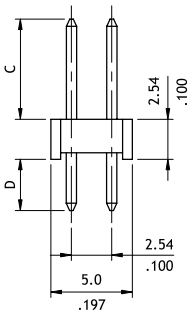


P/N	CH81**2VA00-NH

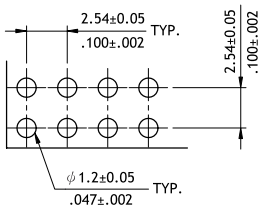




A = 2.54 x No. of Spaces
B = A + 2.36
Pin overall length 30.0mm max.

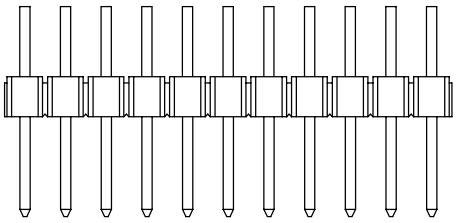


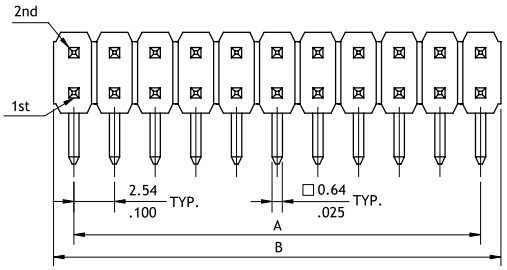
Option Code	Pin Dimension	
	C	D
00	6.00(.236)	3.00(.118)
01	6.26(.246)	3.00(.118)
02	3.50(.138)	3.50(.138)
03	4.20(.165)	4.20(.165)
04	15.50(.610)	3.00(.118)



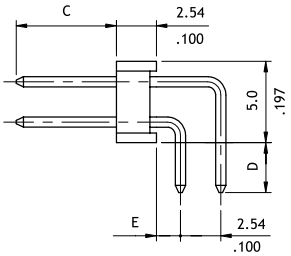
Recommended P.C. Board Layout

P/N	CH81**2HA00-NH

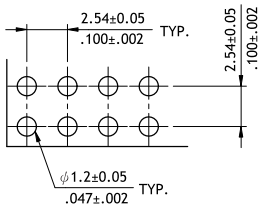




A = 2.54 x No. of Spaces
B = A + 2.36



Option Code	Pin Dimension		
	C	D	E
00	6.00(.236)	3.00(.118)	1.50(.059)
01	6.26(.246)	3.00(.118)	1.50(.059)
02	3.50(.138)	3.50(.138)	1.50(.059)
03	3.00(.118)	3.00(.118)	1.50(.059)
04	3.40(.134)	2.80(.110)	1.50(.059)



Recommended P.C. Board Layout

Ordering Code

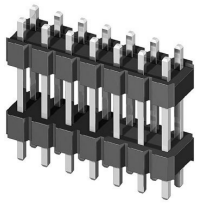
❶ CH81 ❷ 80 ❸ 2 ❹ V ❺ A ❻ 00 – ❼ NH

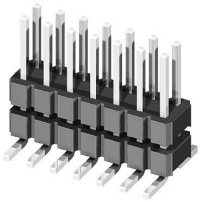
❶ Series No.
❷ No. of Circuits: 04 to 80
❸ Plating Code:
2 = Gold flash over Nickel
❹ Tail: V = Straight DIP Type
H = Right Angle DIP Type
❺ Insulator Material & Color:
A = Nylon 6T UL 94V-0, Color Black
❻ Other Options: 00 = Standard
*See option code tables
*Consult manufacturer for customized pin length
❼ -NH = For Lead Free soldering process and Halogen-Free

CH85 Series 2.54mm(.100") Dual Row Dual Bodies Pin Headers

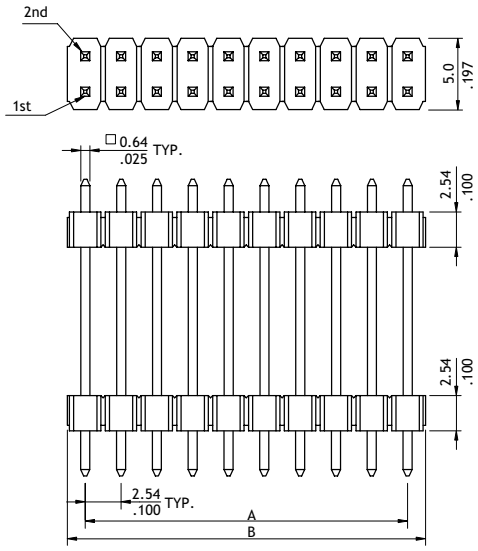
◎ Mate with CB83, CB85, CB87, CB91, CB94, CB96 and CB97 series

RoHS Compliant Pb HF

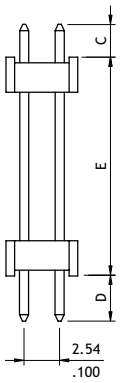




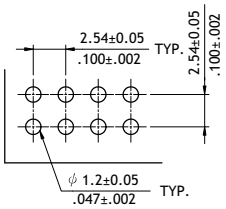
P/N	CH85**2VA00-NH



A = 2.54 x No. of Spaces
B = A + 2.36

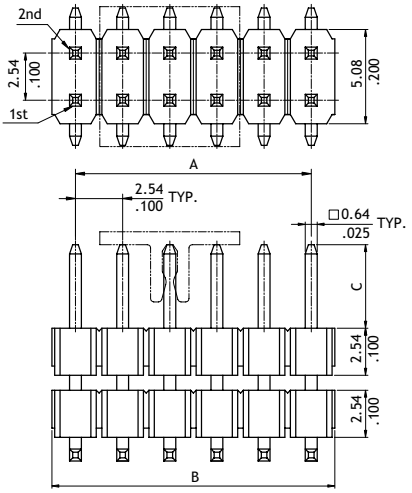


Option Code	Pin Dimension		
	C	D	E
00	2.10(.083)	2.70(.106)	16.2(.638)
01	8.60(.339)	3.00(.118)	18.2(.717)
02	5.60(.220)	3.00(.118)	7.62(.300)
03	6.55(.258)	3.00(.118)	6.45(.254)
04	9.00(.354)	3.00(.118)	14.0(.551)
05	2.70(.106)	2.70(.106)	6.50(.256)

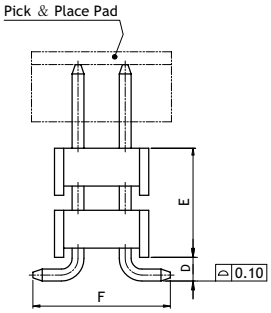


Recommended P.C. Board Layout

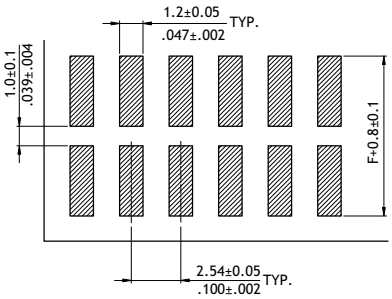
P/N	CH85**2M100-**-NH



A = 2.54 x No. of Spaces
B = A + 2.36



Option Code	Pin Dimension			
	C	D	E	F
00	6.30(.248)	1.27(.050)	6.70(.263)	7.4(.291)
01	6.20(.244)	1.27(.050)	9.27(.365)	7.4(.291)
01	5.00(.197)	1.27(.050)	18.14(.714)	7.4(.291)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

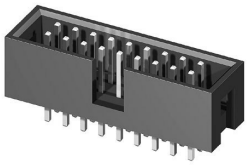
CH85 80 2 V A 00 – 00 – NH

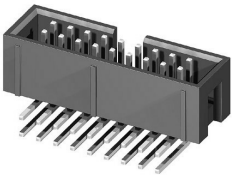
❶ Series No.
❷ No. of Circuits: 04 to 80
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style: V = Straight DIP Type
M = Straight SMT Type
❺ Insulator Color:
1 = Nylon 6T, Color Black (SMT)
A = Nylon 6T, Color Black (DIP)
❻ Other Options: 00 = Standard
*See option code table
*Consult manufacturer for customized pin length
❼ Packing:
00 = Without Pick & Place Pad (Tube)
0P = With Pick & Place Pad (Tape & Reel)
*Code 7 for SMT Type only
❽ -NH = For Lead Free soldering process and Halogen-Free

CH87 Series 2.54mm(.100") Box Headers

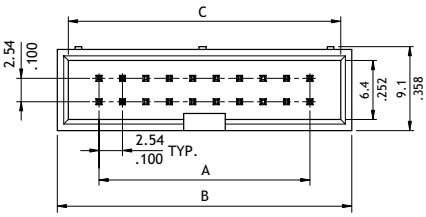
◎ With polarzing slot
◎ Mate with CB94, CA21 series

RoHS Compliant

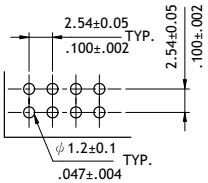




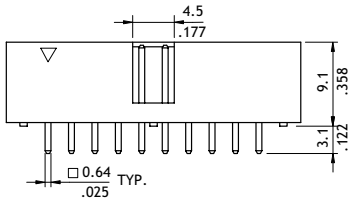
P/N CH87**2V***

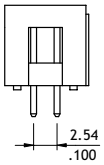


A = 2.54 x No. of Spaces
B = A + 10.16
C = A + 7.86

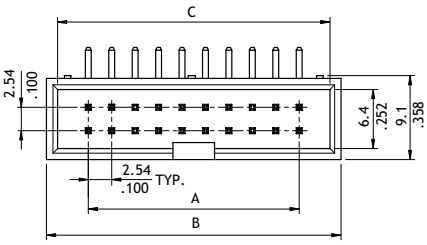


Recommended P.C. Board Layout

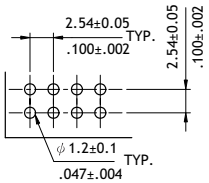




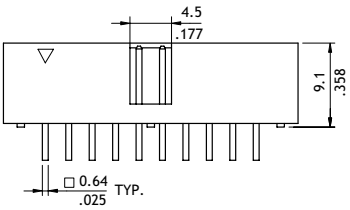
P/N CH87**2H***

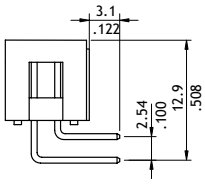


A = 2.54 x No. of Spaces
B = A + 10.16
C = A + 7.86

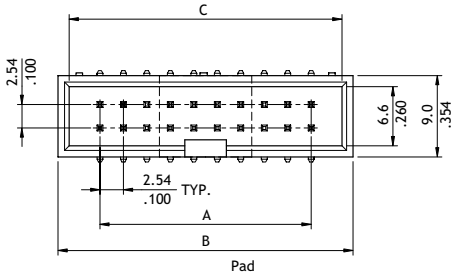


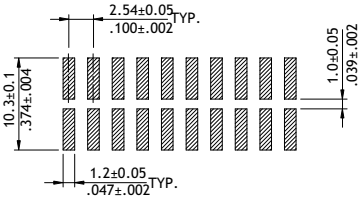
Recommended P.C. Board Layout



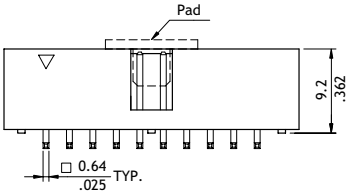


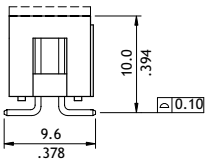
P/N CH87**2M***



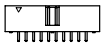


Recommended P.C. Board Layout

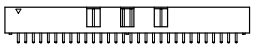




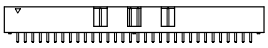
A = 2.54 * No. of Spaces
B = A + 10.16
C = A + 7.86



For Other Circuits



For 60 Circuits



For 64 Circuits

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻

CH87 64 2 V 1 00

❶ Series No.

❷ No. of Circuits:
(Available: 06,08,10,12,14,16, 20,24,26,30,34,44, 50, 60,64)
*Circuits not found above please consult manufacturer

❸ Plating Code:
2 = Gold flash over Nickel

❹ Tail & Mounting Style:
V = Straight DIP Type
H = Right Angle DIP Type
M = Straight SMT Type

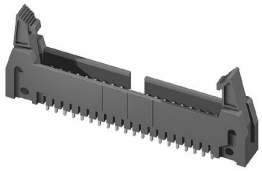
❺ Insulator Color:
1 = Nylon 6T, Color Black (SMT)
A = Nylon 6T, Color Black (DIP)

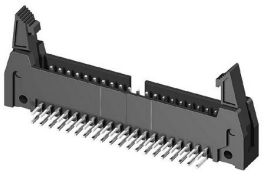
❻ Other Options:
00 = Standard (DIP)
00 = Without Pad (SMT)
P0 = With Pad (SMT)
*Special options consult manufacturer

CH88 Series 2.54mm(.100") Shrouded Box Headers

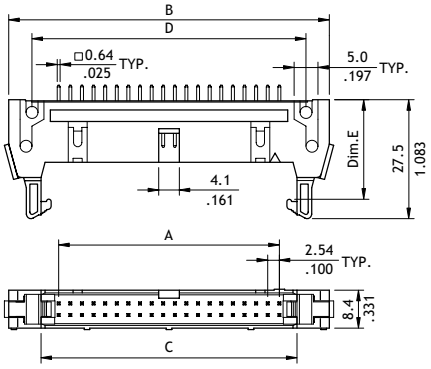
◎ Shrounded header with eject latch
◎ Mate with CA21 series

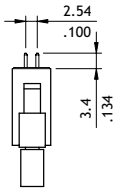
RoHS Compliant





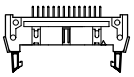
Straight



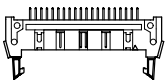


	Long	Short
DIM.E	22.0(.866)	18.4(.724)

(10.14.16 PIN)



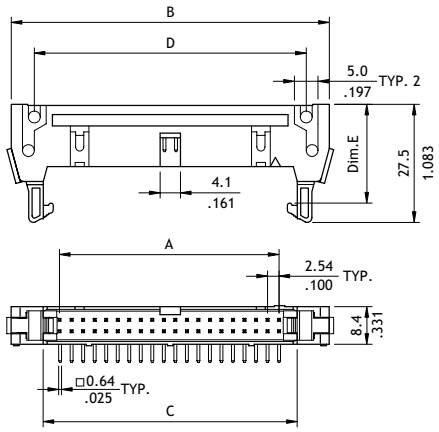
(20.24.26.30. 34.40.50 PIN)

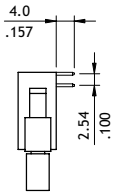


(60.64 PIN)

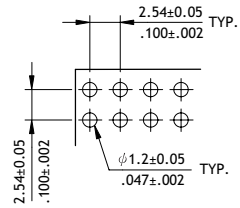
Circuits	Dimension			
	A	B	C	D
10	10.16(.400)	31.87(1.255)	17.90(.705)	21.70(.854)
14	15.24(.600)	36.95(1.454)	22.95(.903)	26.88(1.058)
16	17.78(.700)	39.48(1.554)	25.50(1.004)	29.27(1.152)
20	22.86(.900)	44.62(1.757)	30.58(1.204)	34.50(1.358)
24	27.94(1.100)	49.67(1.956)	35.70(1.406)	39.50(1.555)
26	30.48(1.200)	52.23(2.056)	38.25(1.506)	42.05(1.656)
30	35.56(1.400)	57.30(2.256)	43.35(1.707)	47.20(1.858)
34	40.64(1.600)	62.38(2.456)	48.40(1.906)	52.15(2.053)
40	48.26(1.900)	69.95(2.754)	56.05(2.207)	59.90(2.358)
44	53.34(2.100)	75.08(2.956)	61.11(2.406)	64.77(2.550)
50	60.96(2.400)	82.70(3.255)	68.70(2.705)	72.55(2.856)
60	73.66(2.900)	95.45(3.758)	81.50(3.209)	85.25(3.356)
64	78.74(3.100)	100.60(3.960)	86.40(3.402)	90.35(3.557)

Right Angle





	Long	Short
DIM.E	22.0(.866)	18.4(.724)



Recommended P.C. Board Layout

Ordering Code

❶ ❷ ❸ ❹ ❺ ❻

CH88 64 2 A 1 00

❶ Series No.
❷ No. of Circuits: see above table
❸ Plating Code: 2 = Gold flash over Nickel
❹ Tail & Mounting Style:
A = With Long Latch / Straight (DIM.E = 22.0)
B = With Long Latch / Right Angle (DIM.E = 22.0)
C = With Short Latch / Straight (DIM.E = 18.4)
D = With Short Latch / Right Angle (DIM.E = 18.4)
❺ Color: 1 = Black
❻ Other Options:
00 = Standard
*Special options consult manufacturer