

Archer Connectors – Polarized Specification

➤ 1.27mm pitch male and female connectors, for board-to-board connection with polarization.

➤ Materials

Housings:	High Temperature Plastic UL94V-0
Contacts:	Copper Alloy
Finish:	Gold

➤ Mechanical

Durability:	100 operations
Insertion force (max):	2.0N per contact
Withdrawal force (min):	0.15N per contact

➤ Electrical

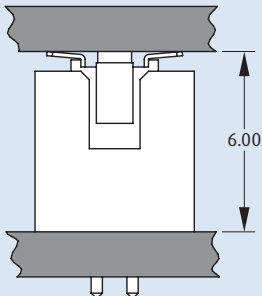
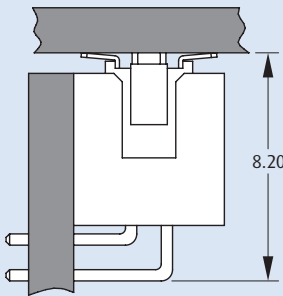
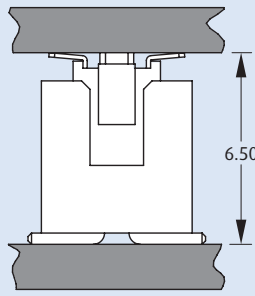
Current:	1A per contact
Voltage proof:	300V AC, 500V DC for 1 minute
Contact resistance:	30mΩ max
Insulation resistance:	500MΩ min

➤ Environmental

Operating temperature:	-40°C to +105°C
Solderability:	245°C for 5 seconds
Soldering heat resistance:	260°C for 10 seconds

1.27mm (.050") PITCH

Mating Profiles

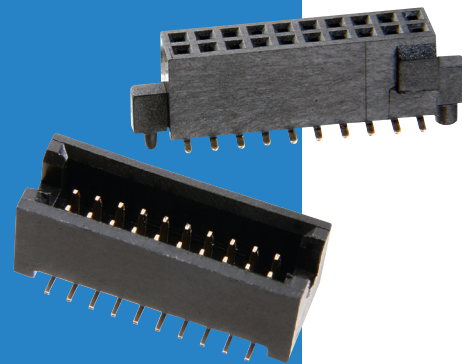
	MALE		
	VERTICAL THROUGHBOARD	HORIZONTAL THROUGHBOARD	VERTICAL SMT
FEMALE VERTICAL SMT			

All dimensions in mm.

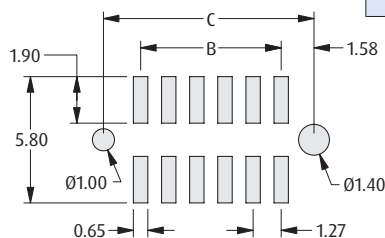
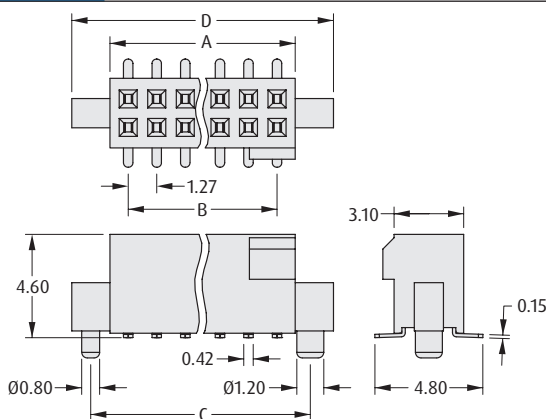
Archer Connectors – Polarized

Vertical Surface Mount

- ❖ Mating connectors in Surface Mount format.
- ❖ Female connector is also suitable for use with male PC Tail connectors on the following page.
- ❖ Polarization to prevent mis-mating.
- ❖ Locating pegs of different sizes ensure correct orientation and positioning on the board.
- ❖ Shrouded for additional pin protection.



FEMALE

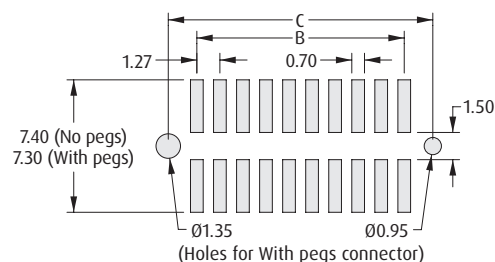
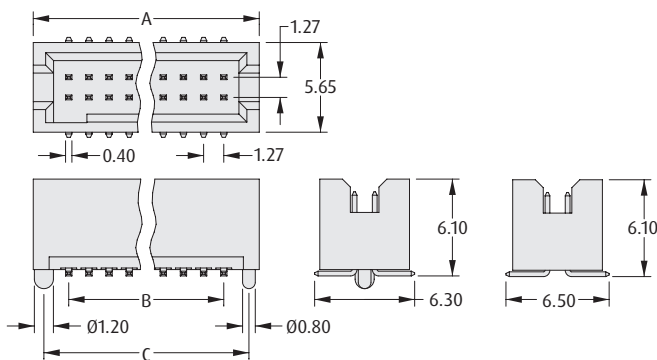


Recommended PC Board Pattern

CALCULATION

A	$B + 1.62$
B	$1.27 \times (\text{No. of contacts per row} - 1)$
C	$B + 3.15$
D	$B + 5.02$

MALE



Recommended PC Board Pattern

CALCULATION

A	$B + 4.47$
B	$1.27 \times (\text{No. of contacts per row} - 1)$
C	$B + 3.15$

HOW TO ORDER

SERIES CODE

TYPE

430	Female
490	Male without pegs
491	Male with pegs

NO. OF CONTACTS PER ROW

05 to 08, 10, 12, 15, 19, 20, 25	Female
05, 07, 08, 10, 12, 14, 15, 20, 25	Male without pegs
05 to 08, 10, 12, 15, 20, 25	Male with pegs

PACKAGING

Blank	Loose
R	Tape & Reeled (check website for available sizes)

FINISH

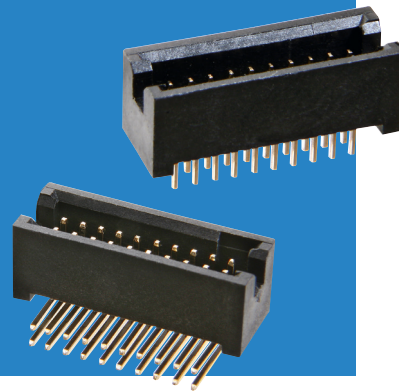
45	Gold
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All dimensions in mm.

Archer Connectors – Polarized

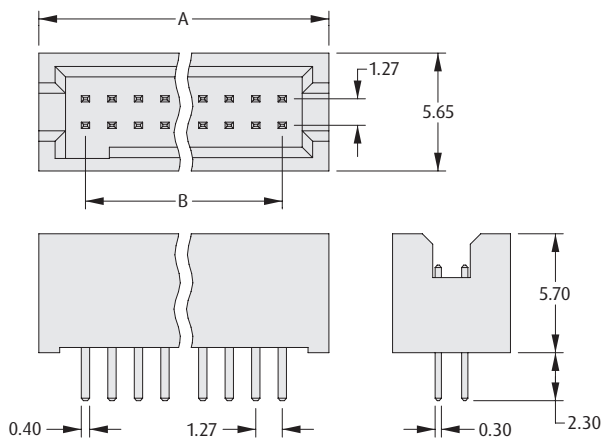
Male Throughboard

- Throughboard male connectors suitable for use with female connector M50-430 Series, shown on previous page.
- Polarization to prevent mis-mating.
- Shrouded for additional pin protection.

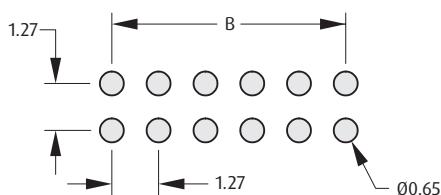
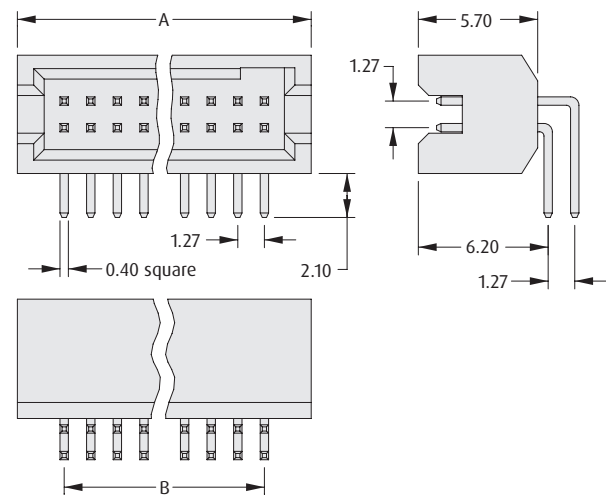


1.27mm (.050") PITCH

VERTICAL



HORIZONTAL



Recommended PC Board Pattern

CALCULATION

A	$B + 4.47$
B	$1.27 \times (\text{No. of contacts per row} - 1)$

HOW TO ORDER

M50 - 4 X 0 XX 45

SERIES CODE

TYPE

7	Vertical
8	Horizontal

FINISH

45 Gold

NO. OF CONTACTS PER ROW

05, 08, 10, 15, 17, 20	Vertical
05 to 07, 10, 12, 15, 25	Horizontal

All dimensions in mm.