

# Archer Connectors – M52 Specification

❖ 1.27mm x 2.54mm pitch male pin headers (with 0.46mm square pins) and female sockets, for vertical board-to-board connection.

## Materials

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

## Electrical

Current:	1A per contact
Voltage proof	
M52-500, 510:	500V AC, 1,000V DC for 1 minute
Others:	1,000V AC/DC for 1 minute
Contact resistance:	30mΩ max
Insulation resistance	1,000MΩ min

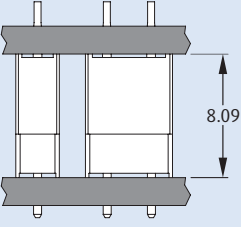
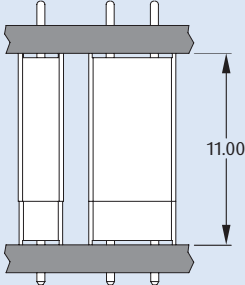
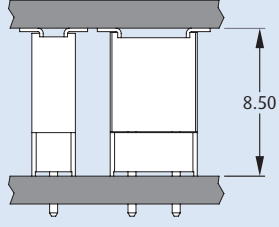
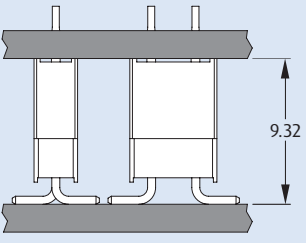
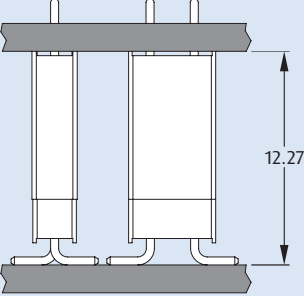
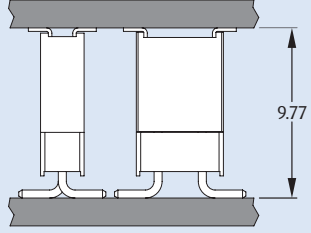
## Mechanical

Durability:	300 operations
Insertion force (max)	
M52-500, 510:	1.0N per contact
Others:	1.5N per contact
Withdrawal force (min)	
M52-500, 510:	0.12N per contact
Others:	0.1N per contact
Vibration sensitivity:	50-2,000Hz, 3.13G, 45 minutes duration
Shock severity:	294m/s <sup>2</sup> (30G) for 11ms

## Environmental

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

## Mating Profiles

		FEMALE		
		VERTICAL THROUGHBOARD (4.6mm Height)	VERTICAL THROUGHBOARD (8.5mm Height)	VERTICAL SMT
MALE	VERTICAL THROUGHBOARD			
	VERTICAL SMT			

All dimensions in mm.