

## Filtered Modular Jack Connectors

Protecting signals from electromagnetic interference (EMI) is now more important than ever. Spectrum Control gives you more choices in keeping your signals clean and free of EMI. Whatever the level of protection your application requires, we offer signal conditioning products that meet any level of price and performance.

These compact, low-cost, filtered printed circuit board RJ45 modular jack connectors from Spectrum Control offer an inexpensive way to protect equipment from conducted and radiated electromagnetic interference (EMI), while meeting all appropriate performance requirements. Offering compact size and high reliability, these new connectors are fully interchangeable and interchangeable with existing standard product. The low profile and narrow width of the multi-port style allows more ports to be packed into less space.

Ferrite filtered versions can be supplied in fully shielded, partially shielded or unshielded versions. Redundant shielding tabs ensure that a low impedance ground path is maintained across the interface; tabs are available in board-ground or panel-ground versions, with panel-ground jacks also incorporating board-ground legs. These flame retardant polyester thermoplastic connectors are compatible with wave solder environments, and employ duplex plated contacts with solder tails.

Modular jack connectors assist with FCC Part 15 A & B; and CISPR 22 compliance.

Applications for this type of connector are widely diversified and include: LANs, WANs, network cards, broadband transmission equipment, workstations, peripherals, fax/modems, copy machines and multiplexing.

### Features

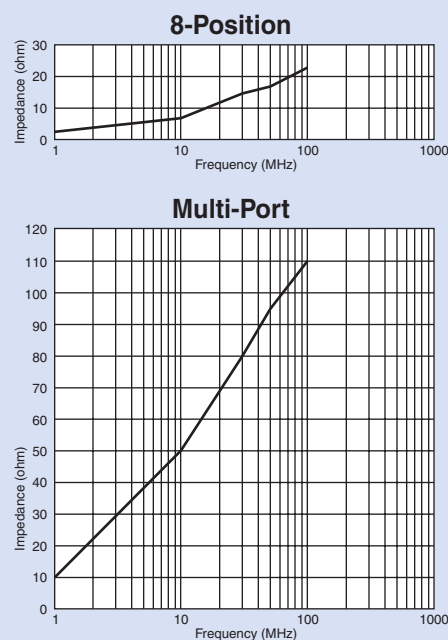
- Lower installed cost
- Assists with FCC Part 15 A & B; and CISPR 22 compliance
- Drop-in replacement, matched footprint
- All circuit lines protected
- Inductor or capacitor versions
- Available with two grounding options – PCB or parallel
- Unshielded, partial or fully shielded versions
- Certified by Canadian Standards Association File No. LR 7189
- Certified by Underwriters Laboratories, Inc., File Number E81956



### Equivalent Circuit (Ferrite Version)



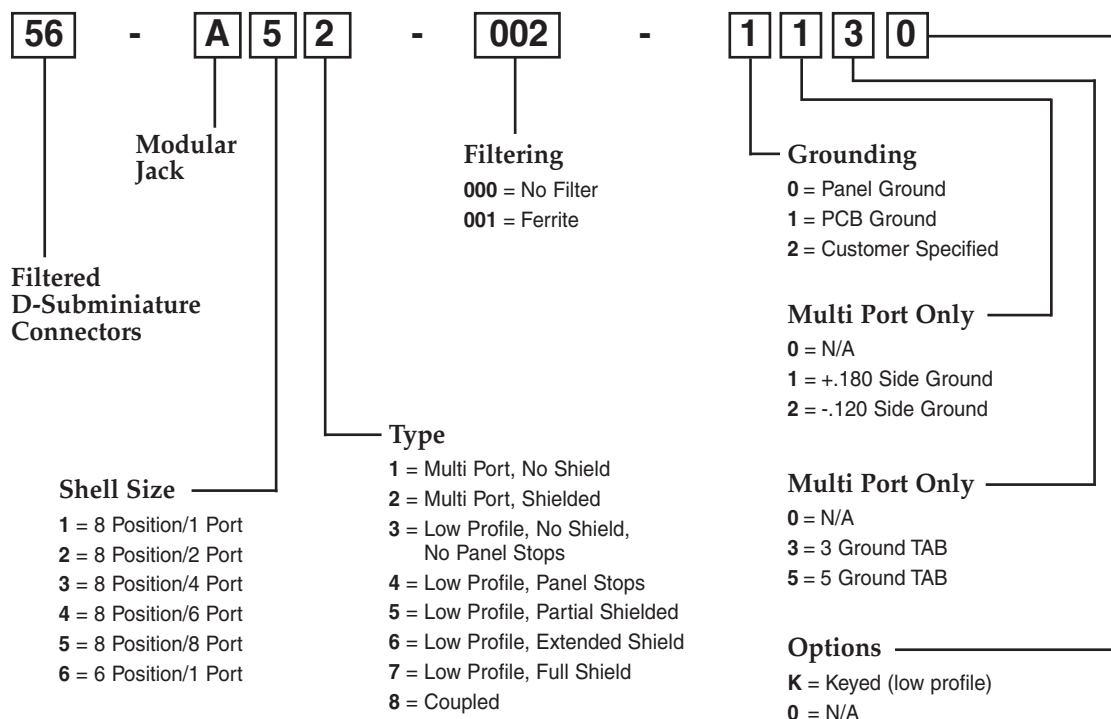
### Typical Impedance vs. Frequency (Ferrite Version)



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## Ordering Information

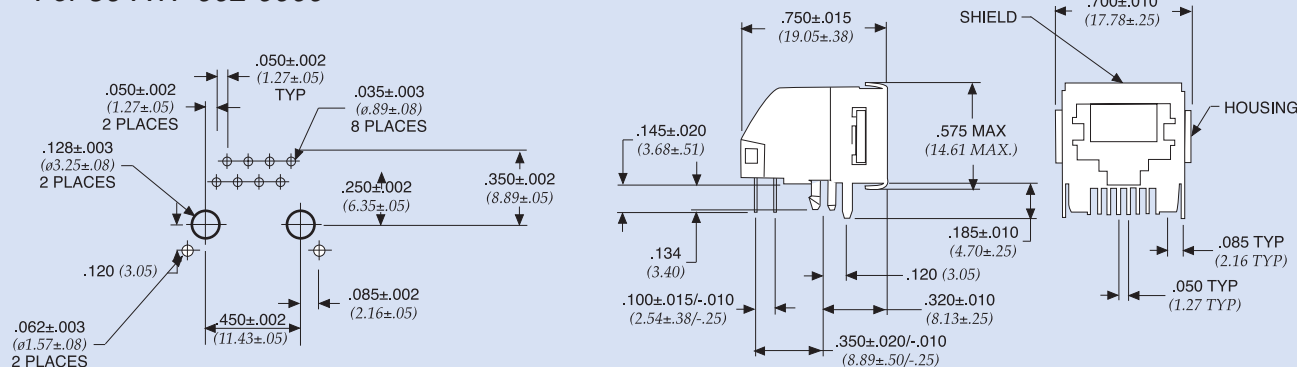
Example: **56-A52-002-1130**



Note: Not all configurations available for every size, consult factory for availability

## Typical Dimensions

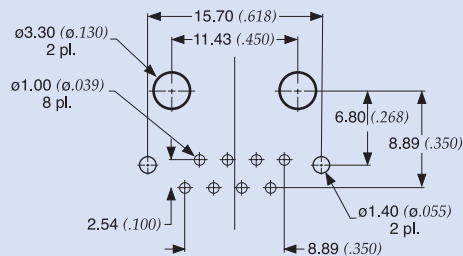
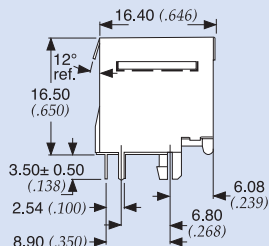
For 56-A17-002-0000



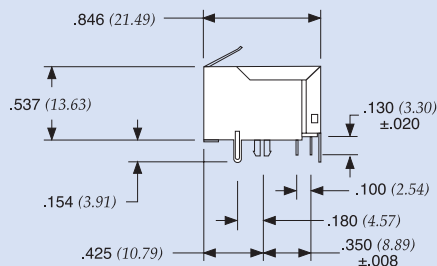
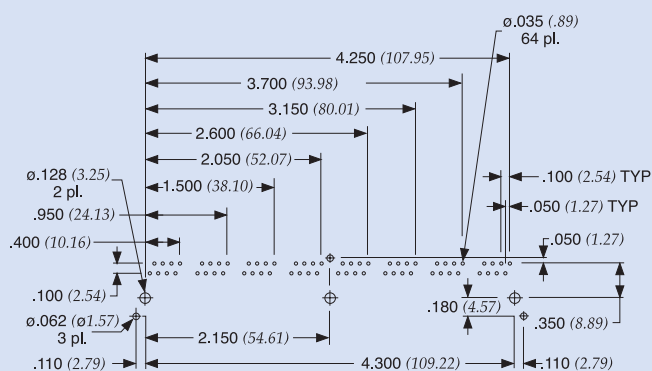
Dimensions in inches (mm)



The drawing shows two views of the connector. The top view shows a rectangular footprint with a central pin array. Dimensions include a total width of 17.90 mm (.705 in) and a pin pitch of 1.60 mm (.630 in). The side view shows the profile of the connector with a total height of 3.30 mm (.130 in). It also shows the height of the top housing (1.20 mm (.047 in)), the height of the pin array (1.80 mm (.071 in)), and the distance from the bottom of the pin array to the bottom of the housing (1.143 mm (.450 in)). The distance from the center of the pin array to the side of the housing is 1.27 mm (.050 in). The distance from the center of the pin array to the edge of the top housing is 3.50 mm (1.38 in).



## Typical Dimensions



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