

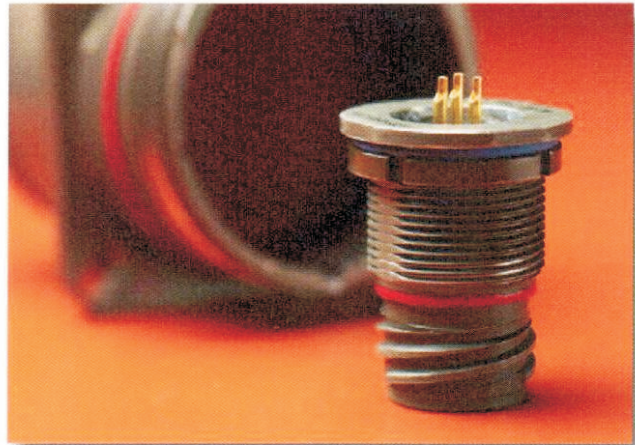


Mini-MIL



Connectors

Spectrum's new Mini-MIL circular connectors are small and lightweight offering space and weight savings while providing equivalent performance to standard MIL-DTL-38999 connectors. These connectors are available filtered with C, Pi or mixed capacitance, or unfiltered, and can be customized to satisfy various mechanical and electrical requirements. These connectors are ideal for military, industrial and medical applications where space restrictions do not allow for larger 38999 connectors.



Specifications

Engagement Types:

- Bayonet
- Single-start UN thread
- Double-start ACME thread
- Triple-start ACME thread

Termination Types:

- PC tail
- Solder cup
- Crimp removable
- Piggyback socket
- Custom

Receptacle Types:

- Flange mount (front or rear mount)
- Jam nut (front or rear mount)
- In-line

Shell Sizes:

Eight shell sizes are available in either pin or socket contact genders

Shell Materials:

Aluminum, stainless steel, composite, custom

Contacts:

Pin and socket contacts are available in 1 to 55 contacts in various combinations of size 23 to size 12.

Electrical Characteristics with C Filter

| Capacitance (pF, GMV)* | Working Voltage | | Dielectric Withstanding Voltage (VDC) | Minimum Insertion Loss (dB) | | | | | |
|------------------------|-----------------|---------|---------------------------------------|-----------------------------|-------|--------|---------|---------|-----------|
| | DC 85°C | AC 85°C | | Cut-Off Freq. MHz | 1 MHz | 10 MHz | 100 MHz | 500 MHz | 1,000 MHz |
| 1,000 | 200 | 115 | 500 | 5 | — | 4 | 21 | 34 | 39 |
| 2,000 | 200 | 115 | 500 | 1 | — | 9 | 26 | 39 | 44 |
| 3,000 | 200 | 115 | 500 | 1 | — | 12 | 30 | 43 | 48 |
| 5,000 | 200 | 115 | 500 | 1 | 1 | 16 | 34 | 46 | 52 |
| 7,000 | 200 | 115 | 500 | 1 | 3 | 19 | 37 | 49 | 55 |
| 10,000 | 200 | 115 | 500 | 1 | 4 | 21 | 39 | 52 | 57 |
| 20,000 | 100 | — | 250 | .50 | 9 | 26 | 44 | 57 | 58 |

Electrical Characteristics with Pi Filter

| Capacitance (pF, GMV)* | Working Voltage | | Dielectric Withstanding Voltage (VDC) | Minimum Insertion Loss (dB) | | | | | |
|------------------------|-----------------|---------|---------------------------------------|-----------------------------|-------|--------|---------|---------|-----------|
| | DC 85°C | AC 85°C | | Cut-Off Freq. MHz | 1 MHz | 10 MHz | 100 MHz | 500 MHz | 1,000 MHz |
| 1,000 | 200 | 115 | 500 | 5 | — | 4 | 28 | 54 | 65 |
| 2,000 | 200 | 115 | 500 | 1 | — | 8 | 39 | 65 | 70 |
| 3,000 | 200 | 115 | 500 | 1 | — | 11 | 47 | 70 | 70 |
| 5,000 | 200 | 115 | 500 | 1 | 1 | 14 | 54 | 70 | 70 |
| 7,000 | 200 | 115 | 500 | 1 | 3 | 18 | 60 | 70 | 70 |
| 10,000 | 200 | 115 | 500 | 1 | 4 | 22 | 64 | 70 | 70 |
| 20,000 | 100 | — | 250 | .50 | 9 | 33 | 70 | 70 | 70 |

* Custom values available.

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