

Series 80 Mighty Mouse EMI/EMP Filtered Connectors Selection Guide and General Information



SECTION J FILTERED MIGHTY MOUSE PRODUCT SELECTION GUIDE

Series 801 Filtered Receptacles Page J-6



Series 801 Filtered Receptacles with Double-Start ACME Threads

Rugged double-start ACME thread provides fast mating. Choose jam nut mount (shown) or square flange. Integral shield termination platform accepts BAND-IT micro-bands, sold separately. Mates with Series 801 plugs.

Series 804 Filtered Receptacles Page J-9



Series 804 Filtered Quick-Disconnect Receptacles

These "push-pull" receptacles mate with standard Series 804 plugs. A coil spring in the receptacle provides low shell-to-shell resistance and consistent de-mate release force. Choose front mount or rear mount jam nut styles.

Series 805 Filtered receptacles Page J-12



Series 805 Filtered Receptacles with Triple-Start ACME Threads

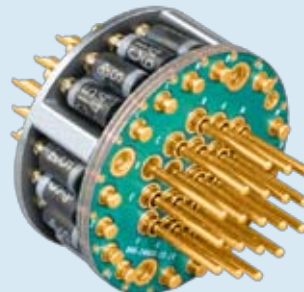
Series 805 connectors offer performance comparable to MIL-DTL-38999 but with reduced size and weight. Mating plugs feature a ground spring and ratcheting self-locking mechanism.

About EMP, ESD and Transient Voltage Suppression

Electromagnetic Pulse (EMP) refers to the intense radio frequency pulses produced by nuclear explosions at high altitudes. Other names for this phenomenon are Nuclear EMP (NEMP), and High-Altitude EMP (HEMP). Like other forms of electromagnetic interference, EMP can have a destructive effect on sensitive electronic devices, particularly those used in mission-critical military applications. This occurs if and when the EMP grounds to an antenna or an unshielded cable and passes unmolested into an electronic device.

Electrostatic Discharge (ESD) is the sudden flow of electric current caused by static electricity and electrostatic induction. Semiconductors can be damaged by ESD.

Transient Voltage Suppression (TVS) technologies are designed to shunt voltage transients directly to ground before such



Glenair connector subassembly with diodes to shunt excessive voltages to ground.

surges can damage sensitive electronic equipment. Individual TVS diodes as well as diode modules may be incorporated directly into the filter connector package to provide optimal protection for either individual contacts or groups of contacts without significant increases in connector size or weight.

Individual circuit protection diodes and diode modules are available for all connector types and are routinely stocked by Glenair to reduce lead-times. Individual diodes and modules may be screened and tested prior to assembly to ensure reliable performance. Field maintenance and repair of damaged diodes is also possible as both individual diodes and diode modules are easily removed from the connector package.

RTCA DO-160 and other electrical performance standards now define acceptable benchmarks for withstanding electromagnetic pulse, lightning strike, or other induced voltage surges in high-reliability systems. Glenair designs all TVS equipped filter connectors to conform to the RTCA DO-160 standard. Contact Glenair for more information on filtered connectors with transient voltage suppression.

Dimensions in inches (millimeters) and are subject to change without notice.