



## Series 80 Mighty Mouse Technical Reference Product Specification Summary Performance Specs, Materials and Finishes

### PERFORMANCE SPECIFICATIONS

Current Rating (Maximum)	Size #23 Contact: 5 A. Size #20 contact: 7.5 A. Size #16 contact: 13 A. Size #12 contact: 23 A.
Test Voltage (Dielectric Withstanding Voltage) Mated Connectors	Size #23 contacts: 500 VAC RMS sea level, 100 VAC RMS 70,000 feet Size #20 contacts: 1800 VAC RMS sea level, 325 VAC RMS 70,000 feet Size #20HD contacts: 750 VAC RMS sea level, 150 VAC RMS 70,000 feet Size #16 contacts: 1800 VAC RMS sea level, 1000 VAC RMS 70,000 feet Size #12 contacts: 1800 VAC RMS sea level, 1000 VAC RMS 70,000 feet
Insulation Resistance	5000 megohms minimum
Contact Resistance	Size #23 Contact: 73 millivolt drop at 5 A. test current Size #20 contact: 55 millivolt drop at 7.5 A. test current Size #16 contact: 49 millivolt drop at 13 A. test current Size #12 contact: 42 millivolt drop at 23 A. test current
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	1 meter water immersion for 1 hour (Series 803 splashproof only)
Shock	300 g
Vibration	37 g
Magnetic Permeability	2.0 μ maximum
Please refer to the comprehensive Series 80 Product Specification for additional parameters and test methods. Filter and hermetic versions have performance specifications which differ from this information.	

### MATERIALS AND FINISHES <sup>(1)</sup>

Aluminum Shell, Barrel, and Coupling Nut	Aluminum alloy 6061 T6
Stainless Steel Shell, Barrel Coupling and Jam Nut	Stainless steel per AMS-QQ-S-763
Front and Rear Insulators	Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLCP-30F
Contact Retention Clip	Beryllium copper, heat-treated, unplated
Grommet, Peripheral Seal and Interfacial Seal	Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Hermetic Insert	Vitreous glass
Contacts	Copper alloy, 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches
Pin Contact, Hermetic	Nickel-iron alloy per ASTM F30 (Alloy 52), 50 microinches gold plated per ASTM B488 Type II Code C Class 1.25 over nickel plate per QQ-N-290 Class 2, 50-100 microinches
Socket Contact Hood	Stainless steel, passivated per AMS-QQ-P-35
Adhesives	Silicone and epoxy
Potting Compound, PCB and Solder Cup Versions	Environmental and Hermetic Connectors: High-strength epoxy, Hysol EE4215. Filter Connectors: Stycast 2850FT/Catalyst 11 thermally conductive epoxy encapsulant.
Filter Element	Multilayer Ceramic Planar Array, ferrite inductors

(1) Refer to Section E for Series 802 "Aqua Mouse" materials and finishes.

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