



# Datasheet for part number MDM-51SH042K

|                                       |                         |                      |               |
|---------------------------------------|-------------------------|----------------------|---------------|
| Our Catalog Part Number: MDM-51SH042K |                         |                      |               |
| Brand: Cannon                         | Product Category: Micro | Product Line: Micros | Series: MICRO |

| Product Datasheet               |                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------|
| Series                          | Micro "D" Metal Shell                                                                                      |
| Arrangement                     | 51 Contact                                                                                                 |
| Gender                          | Socket                                                                                                     |
| Contact Material                | gold plated copper alloy                                                                                   |
| Contact Typ                     | crimp                                                                                                      |
| Contact Resistance              | 8 milliohms max.                                                                                           |
| Termination Type                | 120" Min, M16874/4 #26AWG, Yellow                                                                          |
| Shell Material                  | Aluminum                                                                                                   |
| Shell Finish                    | Yellow Chromate/Cadmium over Nickel                                                                        |
| Insulator Material              | contact size 9 to100 = liquid crystalline polymer,<br>contact arrangements 7C2 or 24C4 = Diallyl phthalate |
| Hardware                        | Jackscrew (standard)                                                                                       |
| Coupling                        | Jackscrew Coupling                                                                                         |
| Current Rating                  | 3 A max.                                                                                                   |
| Dielectric Withstanding Voltage | 600 VAC at sea level<br>150 VAC at 70,00' altitude                                                         |
| Insulator Resistance            | 5000 megohms min.                                                                                          |
| Thermal Shock                   | -55°/+125°                                                                                                 |
| Physical Shock                  | 50 G's, 3 axes, 6 milisecond duration sawtooth pulse                                                       |
| Vibration                       | 20G's, 10-2000 Hz. 12 hours                                                                                |
| Durability                      | 500 cycles of mating and unmating, 500 CPH max.                                                            |
| Moisture Resistance             | Insulator resistance > 100 megohms                                                                         |
| SaltSpray                       | 48 hours                                                                                                   |