

R5PDM



7-16 DIN Male Low PIM Positive Stop™ for 7/8 in RCT RADIAX® Radiating cable

Product Classification

| | |
|----------------------|----------------------------------|
| Product Type | Wireless and radiating connector |
| Product Brand | RADIAX® |

General Specifications

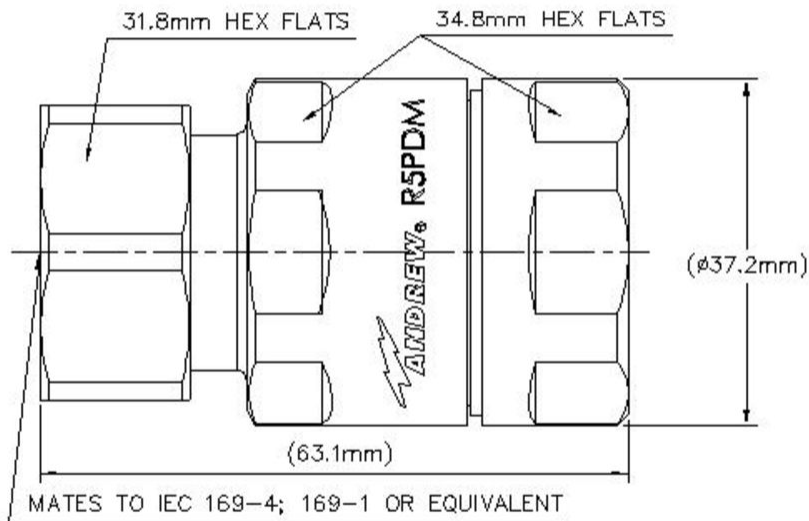
| | |
|--|---------------|
| Body Style | Straight |
| Cable Family | RCT5 |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 7-16 DIN Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|---------------------|--------------------|
| Length | 62.99 mm 2.48 in |
| Diameter | 37.08 mm 1.46 in |
| Nominal Size | 7/8 in |

Outline Drawing

R5PDM



Electrical Specifications

| | |
|--|----------------------|
| 3rd Order IMD at Frequency | -107 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss, typical | 0.05 dB |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 4000 V |
| Inner Contact Resistance, maximum | 0.4 mOhm |
| Insulation Resistance, minimum | 10000 MOhm |
| Operating Frequency Band | 0 – 2700 MHz |
| Outer Contact Resistance, maximum | 1.5 mOhm |
| Peak Power, maximum | 28.8 kW |

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RF Operating Voltage, maximum (vrms) 1200 V

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 50–1000 MHz | 1.04 | 34.16 |
| 1010–2200 MHz | 1.07 | 29.42 |
| 2200–2700 MHz | 1.08 | 28.3 |

Mechanical Specifications

| | |
|--|------------------------|
| Connector Retention Tensile Force | 671.68 N 151 lbf |
| Coupling Nut Proof Torque | 35 N-m 309.776 in lb |
| Coupling Nut Retention Force | 1000 N 224.81 lbf |
| Coupling Nut Retention Force Method | IEC 61169-4:9.3.11 |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:9.5 |
| Mechanical Shock Test Method | IEC 60068-2-27 |

Environmental Specifications

| | |
|---|--------------------------------------|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Corrosion Test Method | IEC 60068-2-11 |
| Moisture Resistance Test Method | IEC 60068-2-3 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |

Packaging and Weights

Weight, net 229.49 g | 0.506 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

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* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)