C250DFBH-20

7-16 DIN Female Bulkhead for 1/4 in CF250-50 cable

OBSOLETE

Product Classification

Product Type	Wireless and radiating connector
Product Series	CF250-50

General Specifications

Body Style	Bulkhead
Cable Family	CF250-50
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Solder
Outer Contact Plating	Silver
Pressurizable	No

Dimensions

Height	40.89 mm | 1.61 in
Width	40.89 mm | 1.61 in
Length	43.69 mm | 1.72 in
Diameter	40.89 mm | 1.61 in
Nominal Size	1/4 in

Electrical Specifications

3rd Order IMD at Frequency	-90 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power at Frequency	1.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
Inner Contact Resistance, maximum	1.5 mOhm
Insulation Resistance, minimum	10000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.4 mOhm
Shielding Effectiveness	-100 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–2700 MHz	1.074	28.95
3000–6000 MHz	1.433	14.99

Mechanical Specifications

Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Insertion Force	889.64 N | 200 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °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	147.57 g | 0.325 lb