

C085QM



QMA Male for 0.085 in CF085-50 cable

Product Classification

Product Type	Wireless and radiating connector
Product Series	CF085-50

General Specifications

Body Style	Straight
Cable Family	CF085-50
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	QMA Male
Mounting Angle	Straight
Outer Contact Attachment Method	Solder
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	10.41 mm 0.41 in
Width	10.41 mm 0.41 in
Length	18.29 mm 0.72 in
Diameter	10.41 mm 0.41 in

Electrical Specifications

3rd Order IMD at Frequency	-93 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.2 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm

C085QM

dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	0.21 kW
RF Operating Voltage, maximum (vrms)	500 V
Shielding Effectiveness	-100 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–960 MHz	1.023	38.886
1710–2200 MHz	1.033	35.793
2200–2700 MHz	1.037	34.816
3000–4000 MHz	1.05	32.26
4000–5000 MHz	1.069	29.539
5000–6000 MHz	1.109	25.734

Mechanical Specifications

Insertion Force	97.86 N 22 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	100 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
Immersion Test Mating	Mated

C085QM

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 15 g | 0.033 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



* Footnotes

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