

Product Specifications



641280-DF

Material ID: 641280-DF

Crossband Coupler, Cellular/900 MHz/DCS 1800/PCS/AWS



CHARACTERISTICS

Electrical Specifications

3rd Order IMD Test Method	Two +43 dBm carriers
3rd Order IMD, maximum	-110 dBm
dc Pass-through	Band 1 Band 2
dc Test Voltage	4000 V
Isolation Between Paths, minimum	47.0 dB
Lightning Surge Current	15 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications (Band 1)

Insertion Loss, maximum	0.15 dB
License Band	900 MHz Cellular
Operating Frequency Band	806 – 960 MHz
Output Power, maximum composite	500 W
Peak Power	12 kW
Return Loss at Frequency Band, minimum	20 dB @ 806–960 MHz

Electrical Specifications (Band 2)

Insertion Loss, maximum	0.20 dB
License Band	AWS DCS 1800 PCS
Operating Frequency Band	1710 – 2170 MHz
Output Power, maximum composite	275 W
Peak Power	6 kW
Return Loss at Frequency Band, minimum	16 dB @ 2160–2170 MHz 20 dB @ 1710–2160 MHz

General Specifications

Application	Indoor Outdoor
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Product Specifications

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Includes

Mounting hardware

Mechanical Specifications

Color	Gray
Connector Interface	7-16 DIN Female
Connector Interface Style	Long neck
Ground Screw Diameter	8.00 mm
Mounting Pipe Diameter	40–160 mm
Mounting Pipe Hardware	Band clamps

Environmental Specifications

Ingress Protection Test Method	IEC 60529:2001, IP68
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%

Dimensions

Depth	50.0 mm 2.0 in
Height	186.0 mm 7.3 in
Volume	1.7 L
Width	186.0 mm 7.3 in
Weight, without mounting hardware	2.0 kg 4.3 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system