641280-DF-9-DCB



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

OBSOLETE

This product was discontinued on: December 1, 2019

Product Classification

Product Type Coupler

General Specifications

Product Family 641280
Color Gray

Common Port LabelCommonModularity1-Single

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface7-16 DIN Female

RF Connector Interface Body StyleLong neck

Dimensions

 Height
 186 mm | 7.323 in

 Width
 186 mm | 7.323 in

 Depth
 50 mm | 1.969 in

 Ground Screw Diameter
 8 mm | 0.315 in

Mounting Pipe Diameter Range 40–160 mm

Electrical Specifications

Impedance 50 ohm

COMMSCOPE®

641280-DF-9-DCB

900 | PCS 1900 | TDD 1900

Electrical Specifications, Common Port

Composite Power, PEP 12000 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combinerBranch 2dc/AISG Pass-through, demultiplexerBranch 2Lightning Surge Current15 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications

 Sub-module
 1
 1

 Branch
 1
 2

Port Designation LOW BAND HIGH BAND

License Band CEL 850, Band Pass

CEL 900, Band Pass LMR 800, Band Pass LMR 900, Band Pass AWS 1700, Band Pass IMT 2100, Band Pass TDD 1900, Band Pass

Electrical Specifications Tx (Downlink)

Frequency Range, MHz

Insertion Loss, typical, dB

Return Loss, typical, dB

Input Power, RMS, maximum, W

Input Power, PEP, maximum, W

3rd Order PIM, typical, dBc

2160–2170

16

275

16

-153

3rd Order PIM Test Method 2 x 20 W CW tones

Electrical Specifications, Band Pass

Frequency Range, MHz	806-960	2160-2170
Insertion Loss, maximum, dB	0.15	0.2
Return Loss, minimum, dB	20	16
Isolation, minimum, dB	47	47
Input Power, RMS, maximum, W	500	275
Input Power, PEP, maximum, W	12000	6000
3rd Order PIM, maximum, dBc		-153

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3rd Order PIM, typical, dBc -153 -153

3rd Order PIM Test Method 2 x 20 W CW tones 2 x 20 W CW tones

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

Relative Humidity Up to 100%

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP68

Packaging and Weights

Included Mounting hardware

Volume 1.7 L

Weight, net 2 kg | 4.409 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above 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/Exempted UK-ROHS Compliant/Exempted





