

Twin Quadplexer 850//900//1800//2100 MHz, dc smart bypass

- Twin configuration
- Suitable for feeders cables reduction
- DC/AISG SMART bypass functionality

OBSOLETE

This product was discontinued on: June 30, 2022

Product Classification

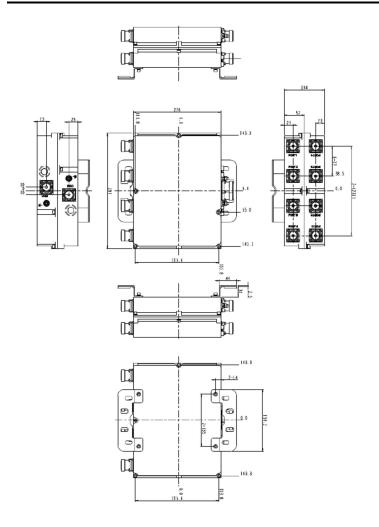
Product Type	Quadplexer	
General Specifications		
Color	Gray	
Modularity	2-Twin	
Mounting	Pole Wall	
Mounting Pipe Hardware	Band clamps (2)	
RF Connector Interface	7-16 DIN Female	
RF Connector Interface Body Style	Medium neck	
Dimensions		
Height	104 mm 4.094 in	
Width	297 mm 11.693 in	
Depth	226 mm 8.898 in	
Mounting Pipe Diameter Range	42.6-122 mm	

Outline Drawing

Page 1 of 4

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Electrical Specifications

Impedance	50 ohm		
License Band, Band Pass	APT 700 CEL 850 CEL 900 DCS 1800 EDD 800 IMT 2100 IMT 2600 LMR 800 LMR 900 TDD 2300		

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	Auto sensing circuitry detects dc/AISG signal presence and selects path
dc/AISG Pass-through, combiner	dc Smart Bypass
dc/AISG Pass-through, demultiplexer	dc Smart Bypass
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

Page 2 of 4

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Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	1 dB
Return Loss, minimum	10 dB

Electrical Specifications

Sub-module	1 2	1 2	1 2	1 2
Branch	1	2	3	4
Port Designation	PORT 1 825-880	PORT 2 906.8-960	PORT 3 1710-1880	PORT 4 1920-2170
License Band	CEL 850, Band Pass	CEL 900, Band Pass LMR 900, Band Pass		IMT 2100, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	825-880	906.8-960	1710-1880	1920-2170
Insertion Loss, maximum, dB	0.45	0.45	0.3	0.3
Return Loss, minimum, dB	18	18	18	18
Isolation, minimum, dB	50	50	50	50
Input Power, RMS, maximum, W	250	250	250	250
Input Power, PEP, maximum, W	2500	2500	2500	2500
3rd Order PIM, typical, dBc	-150	-150	-150	-150
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carrie

Two +43 dBm carriers Two +43 dBm carriers Two +43 dBm carriers Two +43 dBm carriers

Block Diagram COMMON COMMON िर्गर (2)2 Module 1 Module 2 825-880MHz 906.8-960MHz 1710-1880MHz 1920-2170MHz 825-880MHz 906.8-960MHz 1710-1880MHz 1920-2170MHz

Mechanical Specifications

Wind Speed, maximum

216 km/h (134 mph)

Page 3 of 4

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Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	15%-100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67
Vibration Test Method	IEC 60068-2-6
Dackaging and Mojepts	

Packaging and Weights

Included	Mounting hardware
Weight, net	9.4 kg 20.723 lb

Page 4 of 4

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