

SpectrumShare Passive Filter for GSM 900 and UMTS 900

OBSOLETE

This product was discontinued on: December 30, 2024

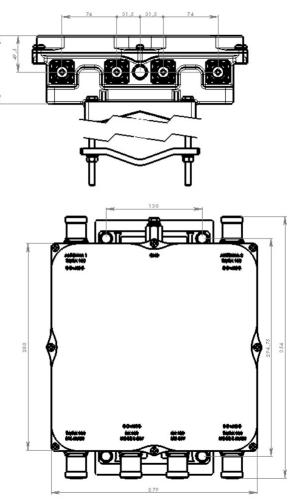
Product Classification

Product Type	Diplexer	
General Specifications		
Application	Outdoor	
AISG Carrier	2176 KHz ± 100 ppm	
Antenna Interface	7-16 DIN Female	
Connector Interface	7-16 DIN Female	
Dimensions		
Height	280 mm 11.024 in	
Width	92.5 mm 3.642 in	
Depth	279 mm 10.984 in	

Page 1 of 5



Outline Drawing



Electrical Specifications

3rd Order IMD Test Method	Two +43 dBm carriers	
3rd Order IMD, typical	-158 dBm	
Isolation Between Paths, minimum	50 dB	
Lightning Surge Current	5 kA	
Lightning Surge Current Waveform	8/20 waveform	
Peak Power, maximum	1 kW	

Electrical Specifications, Rx (Uplink)

Frequency Band

880 – 915 MHz

Page 2 of 5



Insertion Loss, maximum, specific	3.7 dB (UMTS diversity) 4.5 dB (GSM main)	
Insertion Loss, typical, specific	3.5 dB (UMTS diversity) 4 dB (GSM main)	
Return Loss, minimum	16 dB	
Isolation, minimum, specific	22 dB (GSM main to UMTS diversity)	
License Band	UMTS 900	
Port Designation	Antenna port 1	

Electrical Specifications 2, Rx (Uplink)

Frequency Band	880 – 915 MHz	
Isolation, minimum, specific	22 dB (UMTS main to GSM diversity)	
License Band	GSM	
Port Designation	Antenna port 2	
Insertion Loss, maximum, specific	3.7 dB (GSM diversity) 4.5 dB (UMTS main)	
Insertion Loss, typical, specific	3.5 dB (GSM diversity) 4 dB (UMTS main)	
Return Loss, minimum	16 dB	

Electrical Specifications, Tx (Downlink)

Frequency Band	925 – 960 MHz
Isolation, minimum, specific	33 dB (GSM main to UMTS diversity)
License Band	GSM
Input Power, RMS, maximum	126 W
Insertion Loss, typical	0.35 dB
Return Loss, minimum	18 dB

Electrical Specifications 2, Tx (Downlink)

Frequency Band	925 – 960 MHz
Insertion Loss, typical	0.35 dB
Isolation, minimum, specific	33 dB (UMTS main to GSM diversity)
License Band	UMTS 900
Return Loss, minimum	18 dB

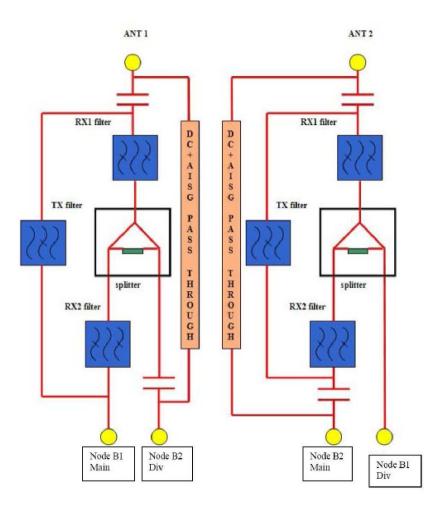
Electrical Specifications, AISG

Insertion Loss, maximum	0.1 dB
Return Loss, minimum	20 dB

Page 3 of 5



Block Diagram



Environmental Specifications

Operating Temperature

-40 °C to +75 °C (-40 °F to +167 °F)

IEC 60529:2001, IP68

Mounting hardware

Packaging and Weights

Ingress Protection Test Method

Included

Weight, net

7.5 kg | 16.535 lb

Regulatory Compliance/Certifications

Agency

Classification

Page 4 of 5



ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

Page 5 of 5

