

SpectrumShare Passive Filter for GSM 900 and UMTS 900

#### OBSOLETE

This product was discontinued on: December 30, 2024

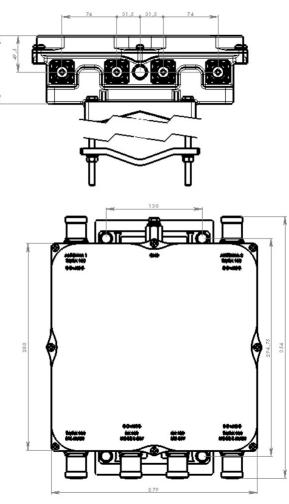
#### Product Classification

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	

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### 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

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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

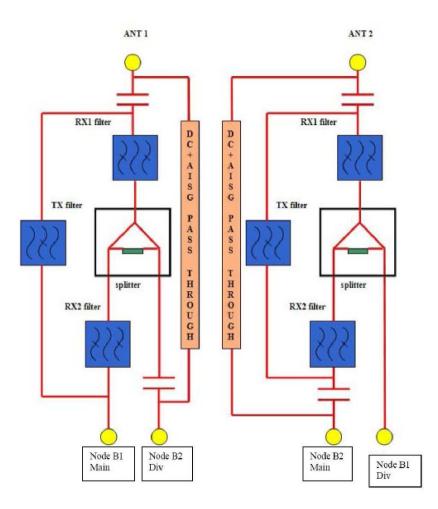
#### Electrical Specifications, AISG

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

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## 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

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ISO 9001:2015

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

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