

WSDA-00019 PCS Fullband Duplexer Diversity Receive Filter Assembly

◆ Description:

The WSDA-00019 is a PCS Fullband Duplexer and Diversity Receive Filter Assembly consisting of one BTS fullband (Rx: 1850-1910 MHz and Tx: 1930-1990 MHz) duplexer and one fullband BTS Rx diversity receive (Rx2) filter in a single, compact, lightweight housing. Both duplexer antenna and Rx2 connectors are 7/16-F DIN type, with O-ring seal for moisture resistance. The WSDA-00024 is configured with longer (1.5" [38.1mm] typical) 7/16-F antenna and Rx2 connector extension and O-ring seals for moisture resistance.



◆ Specifications:

Duplexer Specification

Passbands	
Receive:	1850-1910 MHz
Transmit:	1930-1990 MHz

Passband Insertion Loss	
Receive:	1.0 dB max.
Transmit:	0.8 dB max.

Antenna to Receive Rejection	
DC-1790 MHz:	50 dB min.
1930-1990 MHz:	65 dB min.
1990-5000 MHz:	50 dB min.

Transmit to Antenna Rejection	
DC-1850 MHz:	50 dB min.
1850-1910 MHz:	65 dB min.
2090-5000 MHz:	50 dB min.

Passband to Passband Isolation:	65 dB min.
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Maximum Power Handling	
CW:	20 Watts
Peak Instantaneous:	400 Watts

Passband Return Loss:	16 dB min.
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Rx2 Filter Specification

Passband:	1850-1910 MHz
Insertion Loss:	1.0 dB maximum

Rejection	
DC-1790 MHz:	50 dB min.
1930-1990 MHz:	65 dB min.
1990-5000 MHz:	50 dB min.

Passband Return Loss:	16 dB min.
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Assembly Environmental/Mechanical Specification

Operating Temperature:	-40° to +85°C
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Storage Temperature:	-40° to +85°C
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Operating Humidity:	0 to 90%, Non-condensing
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Dimensions: (excluding connectors):	7.40"W x 6.00"D x 1.725"H [188 x 152.4 x 43.82mm]
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Connectors	
Antenna/Rx2 Input:	7/16-F DIN (x2), with 0.75" [19mm] typical extension & O-ring seal

Rx/Tx/Rx2 Output:	SMA-F (x3)
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WSDA-00024

Antenna/Rx2 Input:	7/16-F DIN (x2), with 1.5"
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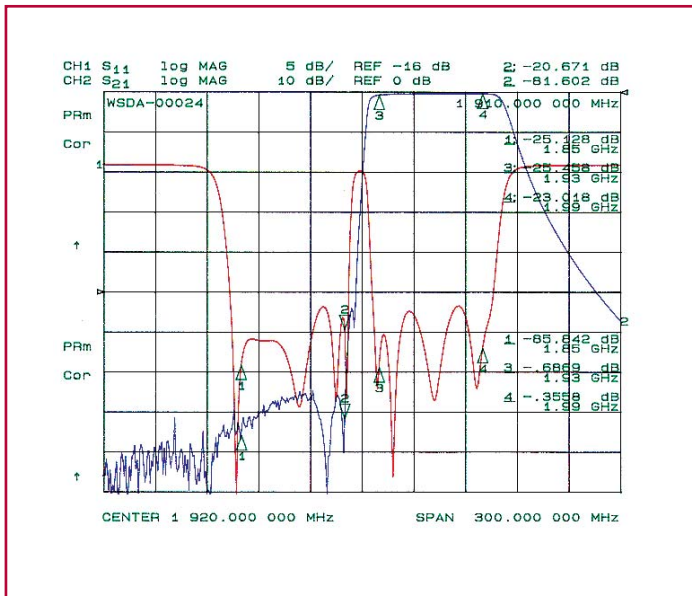
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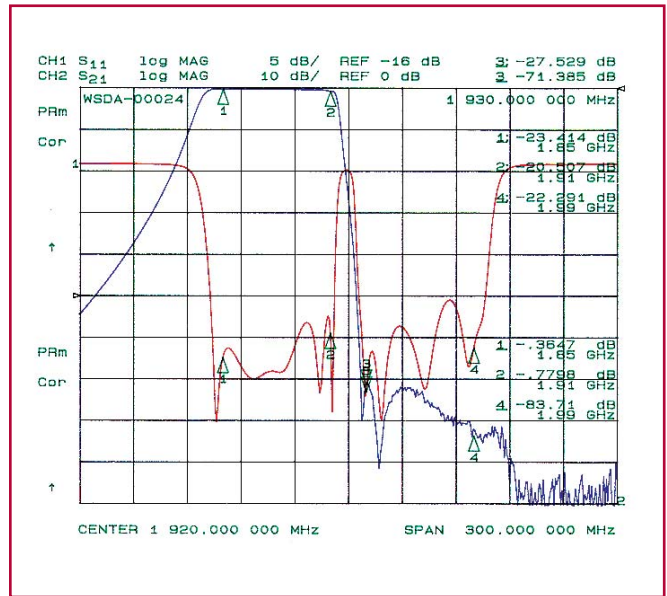
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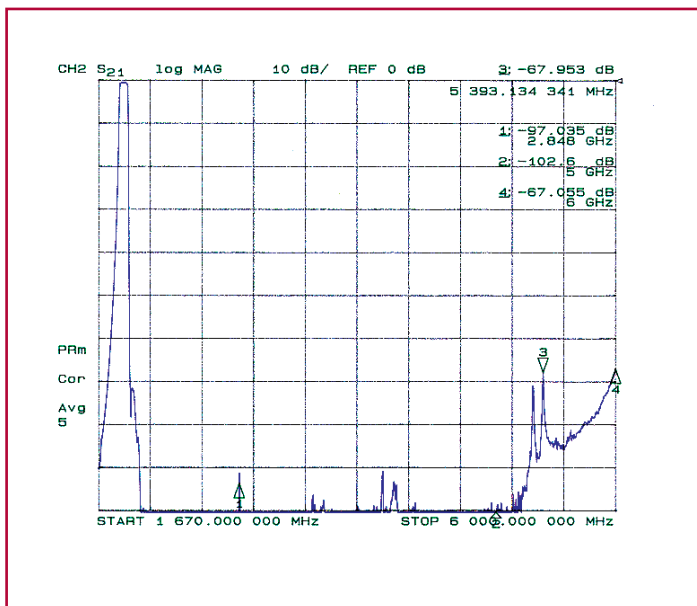
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Receive Channel



Transmit Channel



Out-of-Band Response

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