

WSA-00102 Dual DCS/UMTS Duplexer Assembly

◆ Description:

The WSA-00102 is a dual band duplexer which allows for simplified dual band handset testing, or can be used in dual band base station applications. The assembly contains two duplexers. The first provides DCS band coverage of 1710 to 1785 MHz and 1805 to 1880 MHz. The second provides UMTS band coverage of 1920 to 1980 MHz and 2110 to 2170 MHz (receive and transmit bands respectively). Each similar function port (for example, Rx-Rx, Tx-Tx, and Antenna to Antenna) are multiplexed together to provide the customer with single receive, transmit and antenna ports for integration to test or base transceiver systems.



◆ Specifications:

Receive Passbands:

DCS	1710-1785 MHz
UMTS	1920-1980 MHz

Transmit Passbands:

DCS	1805-1880 MHz
UMTS	2110-2170 MHz

Passband Insertion Loss:

1.2 dB maximum

Passband Flatness:

0.6 dB p-p maximum

Antenna to Receive Rejection:

DC-1640 MHz	50 dB minimum
1805-1880 MHz	50 dB minimum
2030-2170 MHz	50 dB minimum
2170-6000 MHz	50 dB minimum
6000-12,750 MHz	35 dB minimum

Transmit to Antenna Rejection:

DC-1785 MHz	50 dB minimum
1920-2040 MHz	50 dB minimum

2225-6000 MHz

6000-2750 MHz

50 dB minimum

35 dB minimum

Isolation:

Rx Passband(s) to Tx Passbands(s) 50 dB minimum

Tx Passband(s) to Rx Passbands(s) 50 dB minimum

Passband Return Loss: 14 dB minimum

Transmit Passband Maximum Power Handling:

CW 100 watts

Peak Instantaneous 1000 watts

Dimensions:

14" L x 6" W x 2.2" H

(excluding connectors)

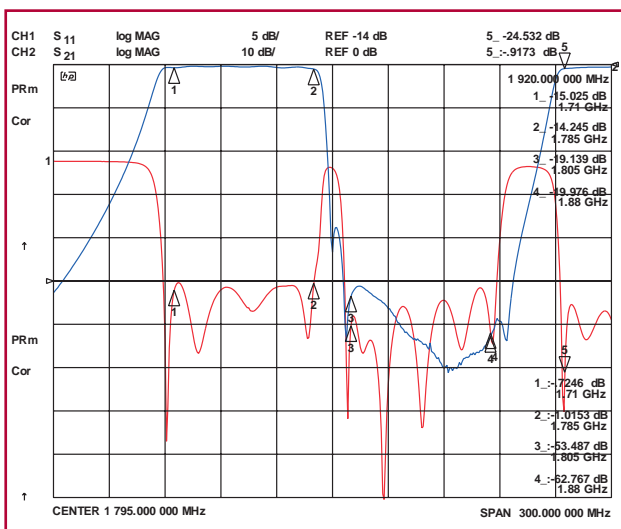
Connectors: 7/16-F

Operating Temperature: -20 to +70°C

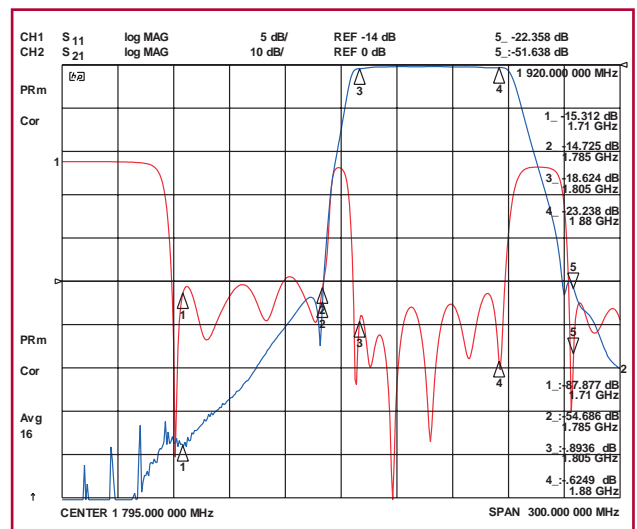
Storage Temperature: -40 to +85°C

Operating Humidity: 0 to 90%, relative,

non-condensing



DCS Receive Response



DCS Transmit Response

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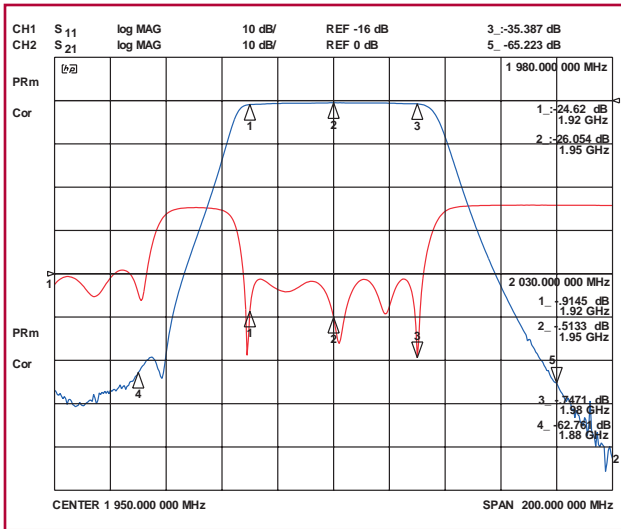
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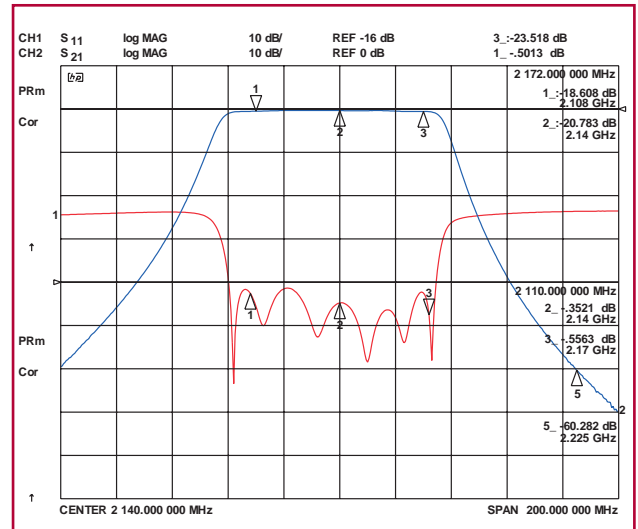
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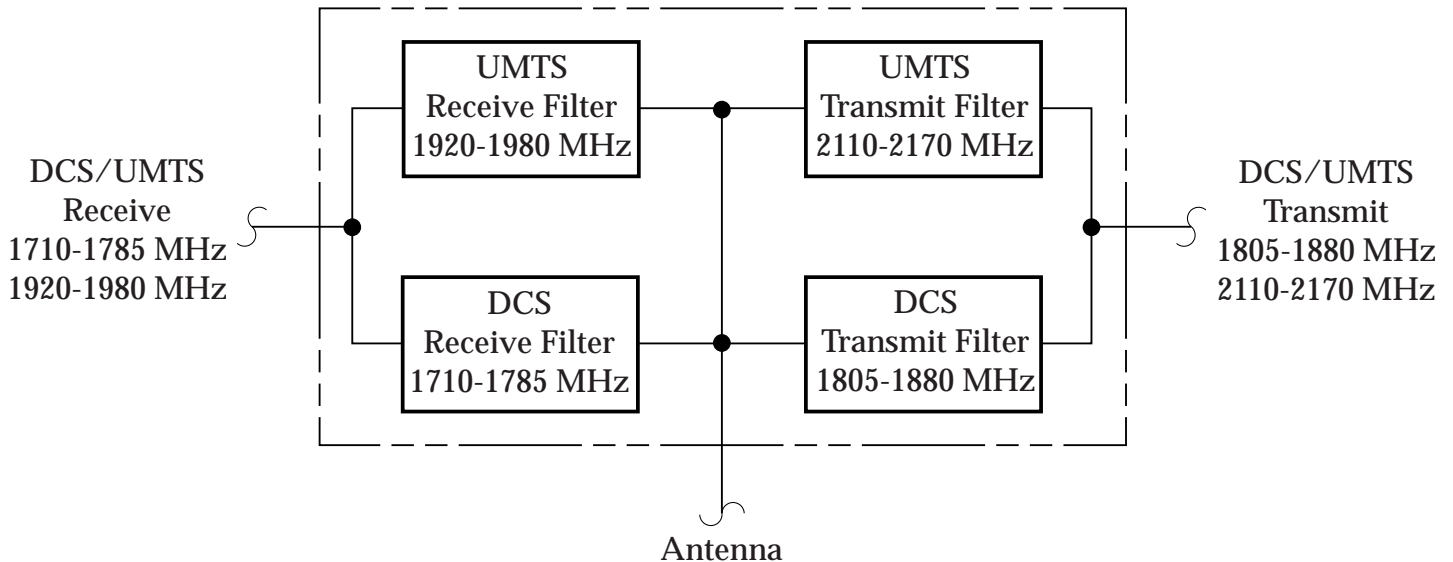
WSA-00102 Dual DCS/UMTS Duplexer Assembly continued



UMTS Receive Response



UMTS Transmit Response



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