

# WSD-00327 UMTS Duplexer

## ◆ Features:

- Low Insertion Loss; 0.8 dB Maximum
- Highly Selective Bandpass Response
  - ▶ Receive Band > 25 dB @ Fc +/- 50 MHz
  - ▶ Transmit Band > 15 dB @ Fc +/- 40 MHz
- High Isolation; 85 dB Minimum
- Passband Group Delay Variation Specified; 40 nS Maximum
- Intermodulation Performance Specified; -120 dBm Maximum
- Compact Dimensions; 5.49" x 5.15" x 1.5"



## ◆ Specifications:

|                          |                  |                        |                          |
|--------------------------|------------------|------------------------|--------------------------|
| Passbands:               |                  | Passband to            |                          |
| Receive                  | 1920 to 1980 MHz | Passband Isolation:    |                          |
| Transmit                 | 2110 to 2170 MHz | 1920 to 1980 MHz:      | 85 dB min.               |
| Passband Insertion Loss: |                  | 2110 to 2170 MHz:      | 85 dB min.               |
| Receive                  | 0.80 dB max.     | Transmit Passband      |                          |
| Transmit                 | 0.80 dB max.     | Power Handling:        |                          |
| Passband Amplitude       |                  | CW                     | 100 Watts                |
| Flatness:                | 0.50 dB max.     | Peak Instantaneous     | 4000 Watts               |
| Passband Group           |                  | Intermodulation:       | -120 dBm max. in         |
| Delay Variation:         | 40 nS max.       |                        | Receive Passband         |
| Passband Return Loss:    | 15 dB min.       |                        | w/two +44 dBm carriers   |
| Antenna to Receive       |                  |                        | applied in Transmit      |
| Port Rejection:          |                  |                        | Passband with Antenna    |
| DC to 1880 MHz:          | 60 dB min.       |                        | Port terminated w/Low    |
| 1880 to 1900 MHz:        | 25 dB min.       |                        | IMD load.                |
| 2000 to 2110 MHz:        | 25 dB min.       | Dimensions:            | 5.49" D x 5.15" W x 1.5" |
| 2110 to 2170 MHz:        | 85 dB min.       | (excluding connectors) | H (max.)                 |
| 2170 to 5500 MHz:        | 50 dB min.       | Connectors:            |                          |
| Transmit to Antenna      |                  | WSD-00327:             | N-F                      |
| Port Rejection:          |                  | WSD-00301:             |                          |
| DC to 1920 MHz:          | 60 dB min.       | Antenna Port:          | QDS-F                    |
| 1920 to 1980 MHz:        | 85 dB min.       | Receive & Transmit     |                          |
| 1980 to 2040 MHz:        | 60 dB min.       | Ports:                 | N-F                      |
| 2040 to 2100 MHz:        | 15 dB min.       | Operating Temperature: | -20°C to +70°C           |
| 2180 to 4220 MHz:        | 15 dB min.       | Storage Temperature:   | -40°C to +85°C           |
| 4220 to 4340 MHz:        | 50 dB min.       | Finish:                | Bright Silver            |

## ◆ Applications:

- Macro 3G UMTS Base Stations
  - ▶ CDMA2000
  - ▶ WCDMA
- Test Systems Where Robust Filtering is Required

Filtering Solutions for Your Global Market

### USA

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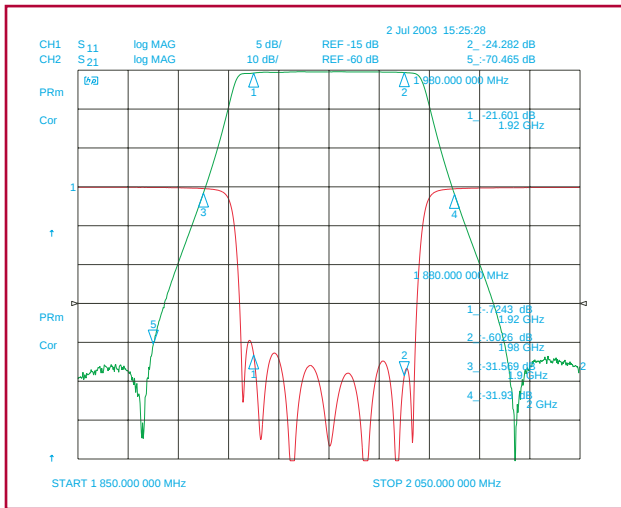
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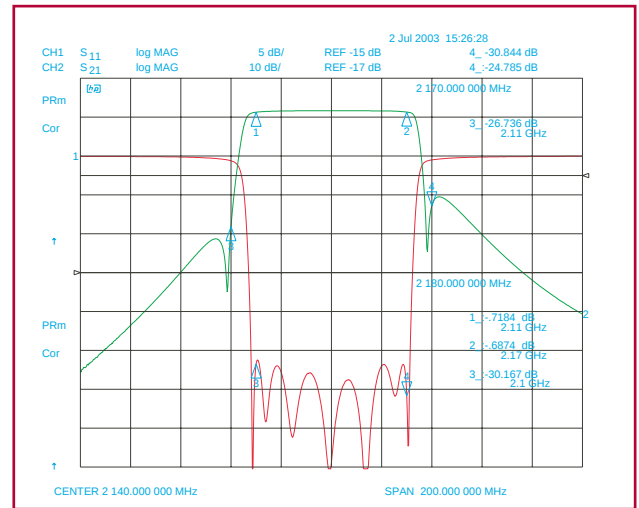
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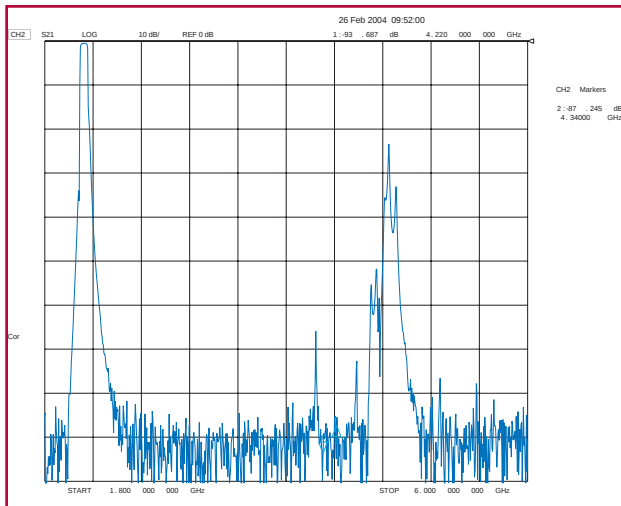
# WSD-00327 UMTS Duplexer



Receive S<sub>11</sub> & S<sub>21</sub> Response



Transmit S<sub>11</sub> & S<sub>21</sub> Response



Transmit S<sub>21</sub> Stopband Response

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