

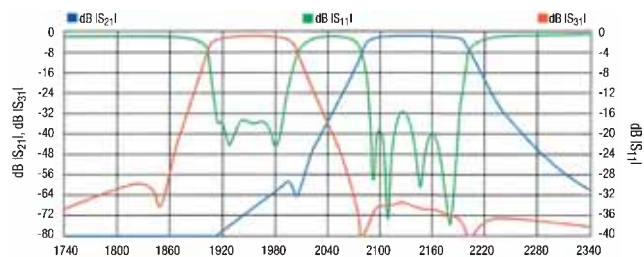
## UMTS Diplexer

### Applications:

- Base stations
- Pico cell, micro cell

### Features/Benefits:

- Custom applications (300 MHz – 6 GHz)
- Connectorized options
- Surface mount
- Frequency Stability
- High Q ceramic



## Electrical Specifications

	ANT	RX	TX
<b>1.0 Electrical</b>			
1.01 Center Frequency ( $F_0$ )	-	1950 MHz	2140 MHz
1.02 Poles	-	5	5
1.03 Bandwidth (BW)	-	60 MHz min.	60 MHz min.
1.04 Insertion Loss @ BW	-	2.3 dB max.	2.0 dB max.
1.05 Flatness (Across PB)	-	0.5 dB max.	0.5 dB max.
1.06 Passband Return Loss	14 dB min.	14 dB min.	14 dB min.
1.07 Attenuation			
Band Isolation Tx-Rx	-	55 dB min.	55 dB min.
RX < 1520 MHz & Rx 1580-1830	-	50 dB min.	-
Rx 1520 - 1580 MHz & Rx 2110-2170	-	55 dB min.	-
Rx 1830 - 1880 MHz	-	20 dB min.	-
Rx 2050 - 2110 MHz	-	25 dB min.	-
Rx 2170 - 3900 MHz	-	45 dB min.	-
Rx 4960 - 5540 MHz	-	12 dB min.	-
Tx < 1920 MHz	-	-	50 dB min.
Tx 1920 - 1980 MHz	-	-	55 dB min.
Tx 1980 - 2025 MHz	-	-	30 dB min.
Tx 2025 - 2060 MHz	-	-	10 dB min.
Tx 2025 - 2050 MHz & Tx 2230 - 2340	-	-	10 dB min.
Tx 2340 - 4000 MHz	-	-	45 dB
1.08 Max. Deviation from Linear Phase over Tx & Rx BW	-	**10°	**5°
1.09 Power Handling	5 W max.	TBD	TBD
1.10 Impedance	50 $\Omega$	50 $\Omega$	50 $\Omega$

### Performance

#### 2.0 Mechanical

2.01 Dimensions L x W x H (inches)	0.675 x 2.473 x 0.276
2.02 Temperature Range	-30° C to +85° C