

### Features

- Low Insertion Loss
- Ultra-Low PIM
- High Power
- Connectorized

### Descriptions

1800/2100/2600 MHz band cavity low PIM triplexer for 5G PIM test bench applications.

### Electrical Specifications

Parameter	Unit	Specification		
		1800 / 2100 / 2600 Tx1 Channel		
Center Frequency (Fc)	MHz	1808.5	2120	2630
Passband Frequency Range	MHz	1805 – 1812	2110 - 2130	2620 - 2640
Insertion Loss in Passband	dB	1.3 max		
Ripple in Passband	dB	0.8 max		
Return Loss in Passband	dB	18.0 min		
Rejection at any other Tx1 and Tx2 Band	dB	35 min		
Rejection at any Rx Band	dB	82 min		
Operating Input Power	Watt	200 CW max		
		1800 / 2100 / 2600 Tx2 Channel		
Center Frequency (Fc)	MHz	1852.5	2165	2677.5
Passband Frequency Range	MHz	1825 – 1880	2150 - 2180	2660 - 2695
Insertion Loss in Passband	dB	1.3 max		
Ripple in Passband	dB	0.8 max		
Return Loss in Passband	dB	18.0 min		
Rejection at any other Tx1 and Tx2 Band	dB	35 min		
Rejection at any Rx Band	dB	82 min		
Operating Input Power	Watt	200 CW max		
		1800 / 2100 / 2600 Rx Channel		
Center Frequency (Fc)	MHz	1747.5	1990	2562.5
Passband Frequency Range	MHz	1710 - 1785	1920 - 2060	2545 - 2580
Insertion Loss in Passband	dB	1.5 max		
Ripple in Passband	dB	1.0 max		
Return Loss in Passband	dB	18.0 min		
Rejection at any Tx1 and Tx2 band	dB	95 min		
Rejection at any other Rx band	dB	50 min		
VSWR withstanding capability				
VSWR withstanding capability at 2 x 45 W power output at ANT port at all phase angles from 0 to 360°, with an open circuit at 2000m altitude and +70°C	Page 1 of 3	IM3 tests to be repeated and should pass after this test		

PIM requirements		
IMD in Rx band, Ant port (2 tones +43 dBm each)	dBc	175 typ., 173 min
IMD in RX band, Ant port (2 tones +46 dBm each)	dBc	174 typ., 171 min
DC/AISG Transparency		
All Port DC impedance	-	Grounded
Connectors	-	7/16 Din female Ant ports, N females Tx ports, SMA female Rx port
RF Connector Configuration	-	In Line
Weight	kg	12 max
Dimensions	mm	465 x 425 x 55 max
Finish	-	Aluminum natural color
Product Configuration	-	Single unit
Mounting	-	Screw mount
Mounting Orientation	-	Any Dierction
Operating Temperature Range	°C	+10 ~ +70
IP Class	-	IP63 for indoor
Lightning protection all ports	-	5 kA, 8/20 us pulse
EMC / EMI	-	NEBS GR-1089-CORE and EN 55022

## Mechanical Drawing



