

Features

- High Q, Low Insertion Loss
- High Attenuation
- Compact Size
- N and SMA Connectors

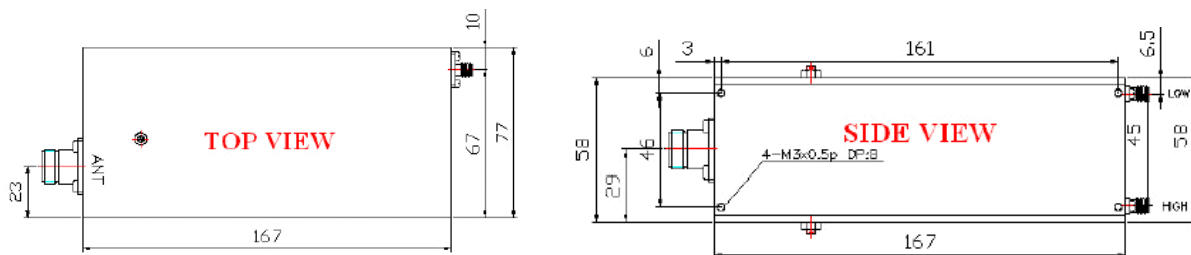
Descriptions

Connector mount cavity duplexer developed for PCS LTE band-2 applications.

Electrical Specifications

Parameter	Unit	Specification	
		Low (RX)	High (TX)
Center Frequency	MHz	1880	1960
Frequency Range	MHz	1850 ~ 1910	1930 ~ 1990
Insertion Loss in BW	dB	1.0 max	0.7 max
Passband Ripple	dB	0.8 max	0.5 max
Return Loss in BW	dB	20.0 min	20.0 min
Attenuation	dB	60 min @ 0 ~ 1700 MHz	60 min @ 0 ~ 1850 MHz
		60 min (65 typ) @ 1930 ~ 1990 MHz	50 min @ 1850 ~ 1910 MHz
		60 min @ 2110 ~ 2170 MHz	50 min @ 2110 ~ 2170 MHz
		70 min @ 2400 ~ 2483 MHz	60 min @ 2400 ~ 2483 MHz
		70 min @ 2495 ~ 2686 MHz	60 min @ 2495 ~ 2686 MHz
		60 min @ 5725 ~ 5845 MHz	60 min @ 5725 ~ 5845 MHz
		40 min @ 5845 ~ 11800 MHz	40 min @ 5845 ~ 11800 MHz
Isolation	dB	60 min @ 1850 ~ 1990 MHz	60 min @ 1850 ~ 1990 MHz
Differential Group Delay	ns	40 max	40 max
Power Handling	W	20 avg, 50 max, 200 peak	
PIMD	dBc	-160 min @ 2 x 10 W	
Lightning Protection	-	3 kA, 10/350 ms	
IN/OUT Impedance	Ω	50	
Operating Temperature	$^{\circ}\text{C}$	-20 ~ +85	
Connectors	-	N female @ ANT, SMA female @ Rx & Tx	
Dimensions	mm	167 x 77 x 58 (L x W x H)	
Finish	-	Black Epoxy Painting	

Mechanical Drawing



Electrical Response

