

Features

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

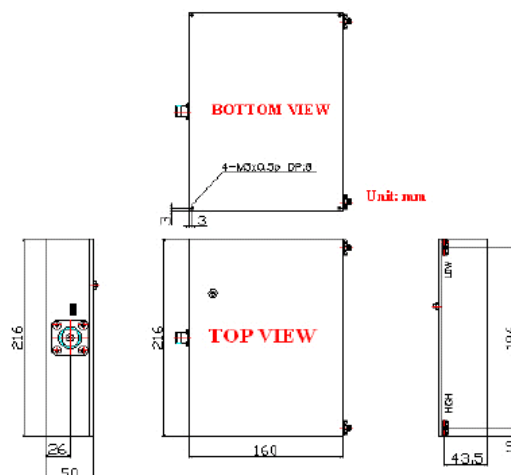
Descriptions

Connector mount cavity duplexer developed for GSM LTE band-5 applications.

Electrical Specifications

Parameter	Unit	Specification	
		Low (RX)	High (TX)
Center Frequency	MHz	836.5	881.5
Frequency Range	MHz	824 ~ 849	869 ~ 894
Insertion Loss in BW	dB	1.0 max	1.0 max (0.8 typical)
Passband Ripple	dB	0.8 max	0.8 max
Return Loss in BW	dB	20.0 min	20.0 min
Attenuation	dB	65 min @ 869 ~ 894 MHz	65 min @ 824 ~ 849 MHz
		65 min @ 1920 ~ 1980 MHz	65 min @ 1920 ~ 1980 MHz
		65 min @ 2110 ~ 2170 MHz	65 min @ 2110 ~ 2170 MHz
		65 min @ 2400 ~ 2483 MHz	65 min @ 2400 ~ 2483 MHz
		65 min @ 2495 ~ 2686 MHz	65 min @ 2495 ~ 2686 MHz
		40 min @ 2686 ~ 11800 MHz	40 min @ 2686 ~ 11800 MHz
Isolation	dB	65 min @ 824 ~ 894 MHz	65 min @ 824 ~ 849 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	$^{\circ}$ C	-20 ~ +85	
Connectors	-	N Female @ ANT, SMA Female @ RX & TX	
Dimensions	mm	216 x 160 x 50 (L x W x H)	
Finish	-	Black Epoxy Painting	

Mechanical Drawing



Electrical Response

