

16A2NAC – Low PIM LTE Duplexer

Renaissance Electronics has designed a new Low PIM LTE Duplexer, Model 16A2NAC. This Duplexer operates over 740 to 787 MHz with an 18 dB minimum isolation, PIMD 50 dB Min and 1.0 dB maximum loss.

Parameter	Specification	
	Tx	Rx
Frequency Range	776 MHz – 787 MHz	746 MHz – 757 MHz
Bandwidth	11 MHz	11 MHz
Insertion Loss	1.0 dB Max	
Passband Ripple	0.8 dB Max	
Return Loss	18.0 dB Min	
PIMD	153 dBc Min @ 2x20W CW 2-tone	
Isolation	50 dB Min @ Rx Band	50 dB Min @ Tx Band
Average Power Rating	40W CW	
In/Out Impedance	50 Ohms	

Parameter	Specification	
	Operating	Non-Operating
Temperature	-30°C to +70°C	-55°C to 125°C
Humidity	MIL-STD-810 Method 106F	
Altitude	MIL-STD-810 Method 105C	
Mechanical Shock	MIL-STD-810 Method 213B	
Random Vibration	MIL-STD-810 Method 214	
Salt Fog	MIL-STD-810 Method 101D	
ROHS	Compliant	

Parameter	Specification
Dimension (WxDxH)	106.0 x 126.0 x 46.0 (mm) / without connector
Connector	ANT Port: N Female Connector Tx/Rx Port: N Female Connector
Finish	Black Epoxy Coating
Weight	-