

16A2NAF – Low PIM Cell + LTE Duplexer

Renaissance Electronics has designed a new Low PIM Cell + LTE Duplexer, Model 16A2NAF. This Duplexer operates from 698 to over 890 MHz with a 50 dB minimum isolation, PIMD 140 dBc Min @ 2x43 dBm input and 0.6 dB maximum loss.

Parameter	Specification	
	CH1	CH2
Frequency Range	698 MHz – 793 MHz	824 MHz – 894 MHz
Insertion Loss	0.6 dB Max	
Passband Ripple	0.4 dB Max	
VSWR	1.25 : 1 Max	
PIMD	140 dBc Min @ 2x43 dBm Input	
Isolation	50 dB Min	50 dB Min
Average Power Rating	100W Input	
In/Out Impedance	50 Ohms Nominal	

Parameter	Specification	
	Operating	Non-Operating
Temperature	-25°C to +55°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)	169.0 x 128.0 x 45.0 (mm) / without connector
Connector	ANT Port: N Female Connector Tx/Rx Port: N Female Connector
Finish	Black Epoxy Coating
Weight	-