16A2NAD – Low PIM Cell Duplexer

Renaissance Electronics has designed a new Low PIM Cell Duplexer, Model 16A2NAD. This Duplexer operates from 824 to over 890 MHz with a 65 dB minimum isolation, PIMD 150-160 dBc Min @ 2x43 dBm input and 1.0 dB maximum loss.

Parameter	Specification	
	Tx	Rx
Frequency Range	869 MHz – 894 MHz	824 MHz – 849 MHz
Bandwidth	25 MHz	25 MHz
Insertion Loss	1.0 dB Max	
Passband Ripple	0.8 dB Max	
Return Loss	20.0 dB Min, all ports	
PIMD	150 dBc Min @ 2x43 dBm Input (IM3) *160 dBc Min @ 2x43 dBm Input (IM3)	
Isolation	65 dB Min @824 MHz – 849 MHz	65 dB Min @869 MHz – 894 MHz
Average Power Rating	60W per Input	
In/Out Impedance	50 Ohms Nominal	

Parameter	Specification	
	Operating	Non-Operating
Temperature	-30°C to +80°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)	125.0 x 126.0 x 45.0 (mm) / without connector
Connector	ANT Port: N Female Connector Tx/Rx Port: N Female Connector
Finish	Black Epoxy Coating
Weight	-

978-772-7774 www.rec-usa.com sales@rec-usa.com
12 Lancaster County Road, Harvard, MA 01451