16A2NAE – Low PIM LTE Duplexer

Renaissance Electronics has designed a new Low PIM LTE Duplexer, Model 16A2NAE. This Duplexer operates from 698 to over 790 MHz with a 60 dB minimum isolation, PIMD 160 dBc Min @ 2x43 dBm input and 1.0 dB maximum loss.

Parameter	Specification	
	Tx	Rx
Frequency Range	728 MHz – 768 MHz	698 MHz – 716 MHz 776 MHz – 798 MHz
Bandwidth	40 MHz	18 MHz, 22 MHz
Insertion Loss	1.0 dB Max	
Passband Ripple	0.8 dB Max	
Return Loss	18.0 dB Min	
PIMD	160 dBc Typ @ 2x43 dBm Input (IM3)	
Isolation	60 dB Min	60 dB Min
Average Power Rating	60W Max @ Tx path	
In/Out Impedance	50 Ohms Nominal	

Parameter	Specification	
	Operating	Non-Operating
Temperature	-25°C to +60°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)	210.0 x 144.0 x 58.0 (mm) / without connector
Connector	ANT Port: N Female Connector Tx/Rx Port: N Female Connector
Finish	Black Epoxy Coating
Weight	-

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