

16A2NAP – Low PIM DAWS/PCS Multiplexer

Renaissance Electronics has designed a new Low PIM DAWS/PCS Multiplexer, Model 16A2NAP. This Multiplexer operates from 1710 MHz to over 2100 MHz with a 75 dB minimum isolation, maximum VSWR of 1.25:1 and 0.3 dB maximum loss.

Parameter		Specification
AWS and PCS Band		
Frequency Range	P1	1710 MHz – 1755 MHz, 2110 MHz – 2155MHz
	P2	1850 MHz – 2000 MHz
Insertion Loss	0.3 dB Max	
VSWR	1.25:1 Max	
Phase Linearity	+/- 3 degrees Max in any 4 MHz band	
P1:P2 Isolation	75 dB Min	
Group Delay	10nS Max in any 4 MHz band	
Passband Ripple	0.4 dB Max in any 4 MHz band	
In/Out Impedance	50 Ohms Nominal	
Input Power Handling (CW)	500W/Input Avg, 3 kW Peak	
Intermod. Distortion	-150 dBc Min, -160 dBc Typ @ 43 dBm 2-tones	
DC Path	Optional	

Parameter	Specification	
	Operating	Non-Operating
Temperature	-40°C to +85°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)	228.0 x 191.0 x 50.0 (mm) / without connector
Connector	N Female Connector or 7/16 DIN Female Connector
Finish	Black Epoxy Coating
Weight	N Type : Approx 4.2 kg 7/16 DIN Type : Approx 4.5 kg