

BPA-0707A

BAND PASS AMPLIFIER

The BPA is a battery powered band pass filtered LNA. With greater than 60dB of rejection to the D/L tones in front of the LNA, the BPA-0707A and the antenna probe combine with the iVA to display external PIM products right where they are generated. It makes it easy to detect third order Passive Intermodulation (PIM) Products causing interference in a hostile multi tone test environment. This particular solution helps the Cellular, First Net and Public Safety networks in the 700MHz Band to coexist without interference. With a resultant low noise floor and large dynamic range, the user can walk around and find the offending external PIM source.



FEATURES

- High rejection dual band filter
- High IP3 LNA
- iVA compatible
- Standalone battery powered
- Low battery indicator
- USB Mini-B charging port

TECHNICAL SPECIFICATIONS

FREQUENCY BANDS	LOW BAND	HIGH BAND
RF SPECIFICATIONS		
Passband	698-716MHz	776-802MHz
Noise Figure	3.5dB	5.9dB
Gain	24dB Typ	20dB Typ
Gain variation	±2.0dB Typ	
OIP3	+35dBm Typ	
Input return loss	10dB Typ	
Output return loss	15dB Typ	
Rejection in the downlink band 728-757MHz	60dB	
Rejection in the downlink band 757-764MHz	40dB Typ	
Maximum input Power on RF port	+10dBm, DC voltage ±30V	
ELECTRICAL		
Battery	Lithium-Ion 3.6V, 2350 mAh, 8.5Wh	
Battery charging method	USB-compatible power source connected to USB Mini-B port of BPA	
Battery operating time	8 Hours at typical usage factor	
INTERFACE PORTS		
RF input connector	Type N male, 50 Ohms	
RF output connector	Type N female, 50 Ohms	
Battery charging port	USB Mini-B receptacle	
MECHANICAL		
Dimensions H x D x W	76 x 56 x 39 mm 2.97 x 2.20 x 1.54 in	
Weight	0.4 kg 0.88 lbs	
ENVIRONMENTAL		
Temperature range	-10°C to +55°C +14°F to +131°F (operational)	
Ingress protection	IP54	
Operational humidity	5% to 95% RH non-condensing	
Storage temperature range	-20°C to +60°C -4°F to +140°F	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
BPA-0707A	Band Pass Amplifier 700MHz Low /High Bands
Contact Kaelus at 1.303.768.8080 or +1.800.498.1352 to obtain additional information, request a quote or receive unit pricing on the Kaelus Band Pass Amplifiers.	

MECHANICAL INTERFACE



