

C BAND SERIES 40W

BENCH TOP PIM ANALYZER

The C Band iBA 40W PIM Analyzers are a complete bench top and rack mounting PIM test solution used with a system controller and intuitive user software. The iBA base model (C-Series) measures Reverse/reflected IM only. The D-Series adds a second test port to support a Reverse IM measurement on either port and a forward IM measurement port-to-port.



FEATURES

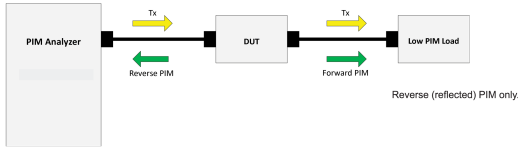
- C-Series: Single port unit for reflected PIM testing
- D-Series: Dual port unit for reflected and forward PIM measurements
- Fully configurable frequencies, power and IM products
- Up to 2 x 46dBm power output
- Frequency sweep and time trace modes
- Open circuit protection up to 1 hour with power turned on
- Kaelus API for easy integration with ATE systems
- Kaelus PIM server software offers the Engineering and Production modes for flexible user interface.

TECHNICAL SPECIFICATIONS

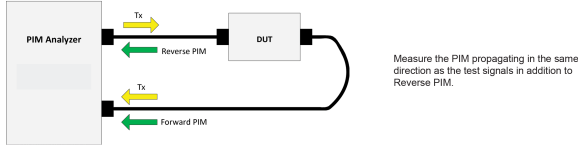
SYSTEM		
Residual PIM (2 x 40W)	min< -168 dBc(-122dBm), typical < -171 dBc(-125dBm)	
IM order	3rd, 5th, 7th and 9th order	
User interface ports	1 x USB Type A	
Test ports	C-Series: 1 x RF Output (7-16 DIN Female); D-Series: 2 x RF Output (7-16 DIN Female)	
TRANSMITTER		
Transmit frequencies	iBA-3500 TX1: 3520 - 3540MHz TX2: 3560 - 3600MHz	iBA-3501 TX1: 3660 - 3700MHz TX2: 3730 - 3800MHz
Frequency increment	100kHz	
Frequency accuracy	± 5ppm maximum, aging ± 1ppm maximum after first year	
Power per tone (adjustable)	+30 to +46dBm 1W to 40W	
Power accuracy (per tone)	± 0.35dB	
RECEIVER		
Receive band (100kHz steps)	iBA-3500 Low Side Reciever 3400-3480MHz	iBA-3501 Low Side Receiver 3500-3600 MHz High Side Receiver 3850 - 3980MHz
Measurement noise floor	< -130 dBm (-135 dBm typical)	
Measurement range	-48 to -130dBm	
ELECTRICAL		
Mains power	100 - 240V, 50 - 60Hz AC	
Power consumption	1050W (Maximum)	
MECHANICAL		
Dimensions H x D x W	C-Series- 264.2 x 508 x 482.6mm 10.4 x 20 x 19in D-Series- 355.3 x 508 x 482.6mm 14 x 20 x 19in	
Weight	C-Series- 22.7kg 50lbs D-Series- 31.3kg 69lbs	
Cooling	Forced air (100mm gap to be maintained at the rear when rack mounted, 1U spacing recommended between units)	

ENVIRONMENTAL	
Temperature range	+10°C to +40°C +50°F to +104°F (operating)
Ingress protection	Indoor use (or similar protected outdoor environment)
Operational humidity	5% to 90% non-condensing
Storage temperature range	-20°C to +60°C -4°F to +140°F

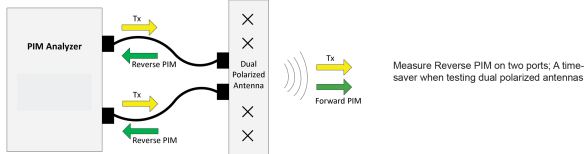
C-Series: Reverse Only



D-Series: Adds Forward / Through test capability



D-Series: Adds a second Reverse test port



PRODUCT

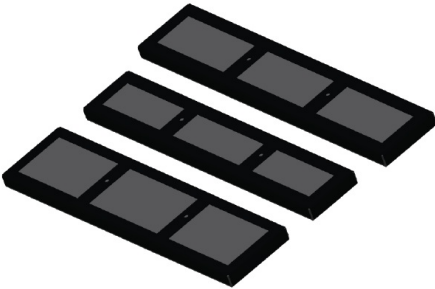
ORDERING INFORMATION		
iBA-3500	TX1: 3520 -3540MHz TX2: 3560-3600MHz.	RX: 3400 - 3480MHz
iBA-3501	TX1: 3660 - 3700MHz TX2: 3730 - 3800MHz	RX1: 3500 - 3600MHz RX2 3850 - 3980MHz
PIL-0006	Low IM Load	
R92-0725	Air filter kit - iBA C Series	
R92-0726	Air filter kit - iBA D Series	
CA123506	Outdoor case for C Band(3500MHz) iBAs	
ACE-1000A	PIM Instrument self-calibration tool	Highly recommended accessory



ACE-1000A
PIM Instrument
self-calibration tool



PIL-0006A
Low IM Load



Air filter kit