



- Expandable PIM Analyzer for Manufacturing and Laboratory.
- One Master Control Unit controls up to 4 different RF Units.
- 3 Measurement Modes: PIM, PIM over Time, PIM over Frequency (Sweep).
- RF Units measure reverse PIM (1-port).
- Measures intermodulation products: IM3

AWT's PEM Series expandable PIM analyzers are ideal when multi frequency measurement are required. They are scalable, new frequencies can be added with increasing requirements. This makes them a cost effective solution for component and antenna testing. The PEM Control Unit can manage up to four RF Units with different frequency bands, any frequency combination is possible. PEM Series analyzers are designed for true 24/7 operation - no overheating, no drifting. They are fully conform to the international PIM standard IEC 62037.

Models

Model	Description	Tx Range (MHz)	Rx Range (MHz)
PEMCTRL	Master Control Unit for up to 4 RF Units	All	All
PEM320	PEM320	332 ~ 344	320~ 327
PEM350	PEM350	359 ~ 366	351 ~ 353

RF & Microwave Technology

AWT - Global offers advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications.

Expandable PIM Analyzers

Production testing requires fast and highly reliable PIM analyzers. As the spectrum of manufactured products widens, PIM analysis may have to be performed on additional frequencies. Our expandable PIM analyzer can be equipped with up to four RF Units.

PIM Analyzers -Types

AWT - Global offers a wide variety of PIM analyzers for many different applications. These include single, double, triple and quadruple band analyzers for standard frequencies and customized frequency bands.

Technical Specifications

Transmitter	
Frequency band	depends on RF Unit
Frequency increments	100 kHz
Frequency accuracy	2 ppm
Power (per tone)	20 - 44 dBm adjustable
Power Accuracy	+/- 0.35 dB
Reverse Pwr. Protection	+43 dBm for 5 sec

Receiver	
Reverse IM @ 2x43dBm	-45dBm to -117dBm (typ.) -88 dBc to -155 dBc
Noise Floor	< 127 dBm typ (@300 Hz) <-121 dBm typ (@1200 Hz)
Dynamic Range (typical)	82 dB
Max Input Power	0 dBm
Measurement Accuracy	+/- 1.0dB (typ)

Electrical	
Main Power	100 to 240V, 50 / 60Hz
Control Unit	88 Watts (VA)
RF Units (@ RF power 2 x 44 dBm)	800 W (VA) max

Environmental	
Operating Temperature	0° C to +40° C
Relative humidity	80% RH max (non condensating)

Dimensions / Weight	
Control unit	483 x 305 x 88.9 (mm) 18.8 x 12.1 x 3.5 (inch)
RF Units (PEM320/350) (Height & Depth may vary)	483 x 1000 x 215 (mm) 18.8 x 39 x 8.5(inch)
Control Unit	11.7 kg / 25.7 lbs
RF units (Weight may vary)	45 kg / 100 lbs

Accessories

Type	Description
PCTRLCOMP	Control Computer for PEM Series Analyzers
PLOAD100L	Low PIM load 100W, PIM < -163 dBc @ 380 - 2800 MHz, <- 158 dBc, @ 320 - 380 MHz, Connector DIN(f)
ADA-DMDF	Low PIM adapter, PIM < -165 dBc @ 380 - 2800 MHz, <- 158 dBc, @ 320 - 380 MHz, DIN(m)-DIN(f), Connector Saver
LIC308-DMDM-2M	Low PIM cable, 2m (6 ft), PIM < -163 dBc @ 380 - 2800 MHz, <- 158 dBc, @ 320 - 380 MHz (@ 2x43 dBm), DIN(m)-DIN(m)
LIC308-DMDM-1M	Low PIM cable, 1m (3 ft), PIM < -163 dBc @ 380 - 2800 MHz, <- 158 dBc, @ 320 - 380 MHz (@ 2x43 dBm), DIN(m)-DIN(m)
PACC2L	Accessory Kit: low PIM cable 3m DIN(m)-DIN(m), low PIM Load 100W, DIN(f), PIM < -163 dBc @ 380 - 2800 MHz, <- 158 dBc, @ 320 - 380 MHz, torque wrench DIN7/16, (4) low PIM adaptors, cleaning tabs, hard carrying case IP66
PIMGEN	PIM generator, preset PIM value -80 dBm (+/-10) for quick system tests

Product Quality

AWT is committed to providing our customers with products meeting the highest quality standards. All AWT products undergo thorough quality checks and are ISO 9001 and ISO 14001 certified.

For more information on any of our products or services please visit our Web site:

www.awt-global.com

AWT Global

46 Countryside Apts.
Building 6, Suite 46
Hackettstown
New Jersey 07840, USA
p: +1 (973) 321-3423
e: sales@awt-global.com
w: www.awt-global.com