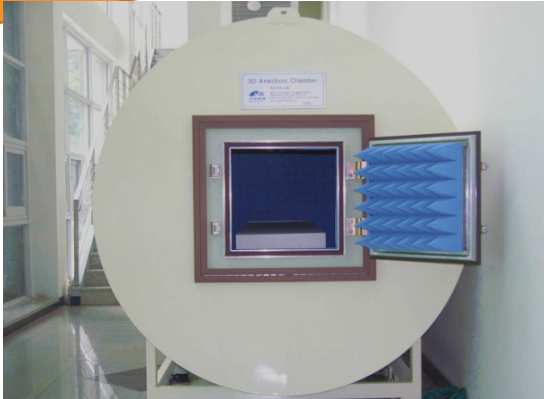


Antenna Test Chamber - Low PIM



- Special design for low PIM antenna measurements
- Shielding > 90 dB
- Frequency Range 700/1000 MHz to 6000 MHz
- Residual PIM < -165 dBc (@ 2 x 43dBm)
- Up to 6 antenna ports for multi-band and MIMO antennas
- Standard models for antennas up to 2.7m length
- Customized solutions available on request

AWT Global's new ATC series low PIM Antenna Test Chambers are especially designed for testing telecommunication antennas from 700 MHz to 6000 MHz. Not only are today's antennas required to show excellent transmission and S-parameter characteristics, due to modern modulation technologies, these antennas have to show very low passive intermodulation (PIM). Standard anechoic test chambers may provide reasonable shielding, but they are often not suited for low PIM antenna measurements; their residual PIM may be much too high. Besides the very high shielding of more

than 90 dB, our ATC series provide lowest residual passive intermodulation. Special chamber material, properly designed pyramidal electromagnetic absorbing material and special manufacturing techniques guarantee best results.

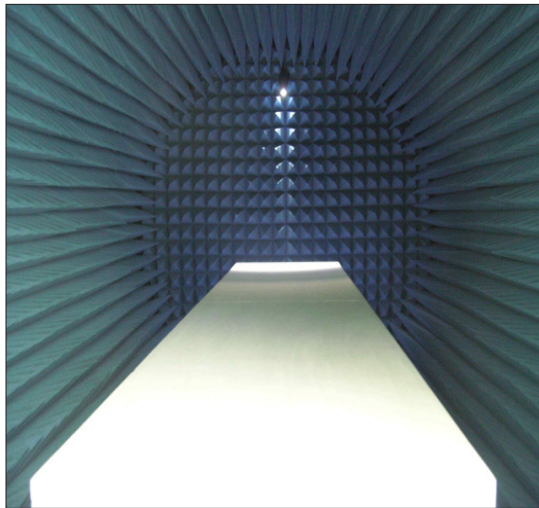
The new low PIM Antenna Chamber is available in different lengths to suite customer specific applications. The table below shows standard types, customized versions or turnkey ATE are available on request.

Models

Models	Description
ATC20	Length 2.0m, Dia 1.8m, max antenna length 1.2m / 1.0m*
ATC27	Length 2.7m, Dia 1.8m, max antenna length 1.9m / 1.7m*
ATC32	Length 3.2m, Dia 1.8m, max antenna length, 2.4m / 2.2m*
ATC35	Length 3.5m, Dia 1.8m, max antenna length 2.7m/ 2.5m*
ATC37	Length 3.5m, Dia 1.8m, max antenna length 2.9 / 2.7m*

* Depends on absorber material 8 inch / 12 inch

Other models and customized configurations are available on request



RF & Microwave Technology

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

PIM Test Systems

AWT Global offers a variety of PIM analyzers including portable and laboratory units with single port (reverse PIM). We offer also expandable multi band, dual port units. All our PIM Analyzers are conform to specification IEC 62037, the global standard for PIM measurements.

Customized Solutions

Measurement requirements are often different. Automated routines will save time and provide reliable, repeatable results. We offer customized Antenna Chambers and complete turnkey ATE solutions.

Technical Specifications

Shielding Effectiveness

ATCxx	>90 dB (1000-6000 MHz)
ATCxx & ATCABS12	>90 dB (700-6000 MHz)

Electrical (LED light)

Main Power	100-240V, 50/60Hz
Power consumption	20 Watts (VA)

Ports

ATCxx	One, DIN 7/16 (f)-(f)
ATCxx & ATCPORT2	Two, DIN 7/16 (f)-(f)
ATCxx & ATCPORT4	Four, DIN 7/16 (f)-(f)
ATCxx & ATCPORT6	Six, DIN 7/16 (f)-(f)

PIM

Residual PIM	<-165 dBc (@2x43dBm)
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Dimensions

Length, cylinder diameter, height	
ATC20	2.0m x Dia 1.8m x 2.2m
ATC27	2.7m x Dia 1.8m x 2.2m
ATC32	3.2m x Dia 1.8m x 2.2m
ATC35	3.5m x Dia 1.8m x 2.2m
ATC37	3.7m x Dia 1.8m x 2.2m

Weight

ATC20	480 kg
ATC27	550 kg
ATC32	600 kg
ATC35	650 kg
ATC37	720 kg

Models & Options

Model	Description
ATC20	Antenna Chamber Low PIM 90 dB shielding, frequency range 1000-6000 MHz, length 2.0m, diameter 1.8m, max antenna length 1.2 m/ 1.0m (standard / with ACTABS12)
ATC27	Antenna Chamber Low PIM 90 dB shielding, frequency range 1000-6000 MHz, length 2.7m, diameter 1.8m, max antenna length 1.9 m/ 1.7m (standard / with ACTABS12)
ATC32	Antenna Chamber Low PIM 90 dB shielding, frequency range 1000-6000 MHz, length 3.2m, diameter 1.8m, max antenna length 2.4 m/ 2.2 m (standard / with ACTABS12)
ATC35	Antenna Chamber Low PIM 90 dB shielding, frequency range 1000-6000 MHz, length 3.5m, diameter 1.8m, max antenna length 2.7 / 2.5 m (standard / with ACTABS12)
ATC37	Antenna Chamber Low PIM 90 dB shielding, frequency range 1000-6000 MHz, length 3.7m, diameter 1.8m, max antenna length 2.9 / 2.7 m (standard / with ACTABS12)
ATCABS12	12 inch absorption material (instead of 8 inches), extends frequency range to 700-6000 MHz, reduces usable length inside the ATC by 20 cm (8 inches)
ATCDR10	Increases door size by 100 mm to 598 x 576 mm
ACTPORT2	2 Antenna ports
ATCPORT4	4 Antenna ports
ATCPORT6	6 Antenna ports

Accessories

Type	Description
PLOAD1	Low PIM load 100W, PIM <168 dBc, 700-2700 MHz, with handle
PLOAD2	Low PIM load 50W / 20W (30 mins / permanent), PIM <168 dBc, 700 - 2700 MHz, dual port DIN(m)-DIN(f)
PCAB3M	Low PIM cable 3m, PIM < 170dBc, DIN(m)-DIN(m)
TRQWRN25	Torque Wrench 7/16 DIN - 25Nm / 19 ft lb

Product Quality

AWT is committed to providing our customers products that meet 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

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