

Absolute EMC, MIL-STD Antenna Port Set, 30 MHz – 2 GHz



The Absolute EMC MIL-STD Antenna Port Test Set is a turnkey accessory package engineered to streamline MIL-STD-461 testing procedures CE106, CS103, CS104, CS105, and RE103. This starter kit delivers all key components—tunable notch filters, broadband directional couplers, precision attenuators, terminations, and a comprehensive adapter kit—covering 30 MHz to 2 GHz. Optional higher-frequency filters and accessories can be added to extend coverage

beyond 2 GHz.

Key Applications

- **Conducted Emissions (CE106):** Suppress unwanted emissions on the antenna port.
- **Conducted Susceptibility (CS103/CS104/CS105):** Inject RF signals to evaluate intermodulation, spurious-response rejection, and cross-modulation immunity.
- **Radiated Emissions (RE103):** Measure spurious and harmonic outputs via the operational antenna.

Kit Contents

1. Tunable Notch Filters
2. Directional Couplers
3. Fixed Terminations
4. Fixed Attenuators
5. TBAS1 Adapter Kit

30 MHz – 2 GHz Coverage

Tunable Notch filters

Model:	TNF30M76M	TNF50M100M	TNF100M200M	TNF200M400M	TNF250M500M	TNF500M1G	TNF1G2G
Frequency Range	30 - 76 MHz	50 - 100 MHz	100 - 200 MHz	200 - 400 MHz	250 - 500 MHz	0.5 – 1 GHz	1 - 2 GHz
Impedance:	50 Ohm	50 Ohm	50 Ohm	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Connector:	Type N	Type N	Type N	Type N	Type N	Type N	Type N
Insertion loss:	0.5 dB Max	0.5 dB Max	0.5 dB Max	0.5 dB Max	0.5 dB Max	0.5 dB Max	0.5 dB Max
3dB BW:	3%	3%	3%	3%	3%	3%	3%
40dB BW:	100 kHz	300 kHz	300 kHz	300 kHz	300 kHz	300 kHz	300 kHz
Rejection (dB):	50 dB	50 dB	50 dB	50 dB	50 dB	50 dB	50 dB
VSWR:	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Power CW:	50 Watts	50 Watts	50 Watts	50 Watts	50 Watts	50 Watts	50 Watts
Tuning:	Tuning knob	Tuning knob	Tuning knob	Tuning knob	Tuning knob	Tuning knob	Tuning knob

Directional Couplers

Model:	DC10M600M20dB	DC500M18G20M
Frequency Range	10 – 600 MHz	500 MHz – 18 GHz
Impedance:	50 Ohm	50 Ohm
Connector:	SMA (f)	SMA (f)
Insertion loss Max:	0.7 dB	1.6 dB
Coupling Factor:	20dB	20dB
Type:	Dual Directional	Directional
Coupling Flatness Typ:	0.9 dB	7.5 dB
Directivity Min:	19dB	10 dB
VSWR Typ:	1.05:1	1.35:1
Power CW:	25 Watts	30 Watts
Housing Size:	2"x2"x0.88" (50.8x50.8x22.35mm)	6.47"x0.73"x0.5" (164.3x18.54x12.7mm)
Weight:	250 Grams	

Terminations:

- **TERM27G5W** SMA Male Termination (Load) 5Watt 27Ghz VSWR 1.3
- **TERM 6G30W** Type N Termination 30Watt 6Ghz VSWR 1.6

Attenuators:

- **ATT18G5W3dB** SMA/Male Attenuator 18GHZ 3dB 5Watt VSWR 1.4
- **ATT18G5W-6 dB** SMA/Male Attenuator 18GHZ 6dB 5Watt VSWR 1.4
- **ATT 18G5W10dB** SMA/Male Attenuator 18GHZ 10dB 5Watt VSWR 1.4
- **ATT 18G5W20dB** SMA/Male Attenuator 18GHZ 20dB 5Watt VSWR 1.4
- **ATT 18G5W30dB.** SMA/Male Attenuator 18GHZ 30dB 5Watt VSWR 1.4
- **ATT 18G25203dB** N Attenuator 18Ghz 25Watts 3db VSWR 1.35
- **ATT 18G25206dB** N Attenuator 18Ghz 25Watts 6db VSWR 1.35
- **ATT 18G25210dB** N Attenuator 18Ghz 25Watts 10db VSWR 1.35
- **ATT 18G25220dB** N Attenuator 18Ghz 25Watts 20db VSWR 1.35
- **ATT 18G25230dB** N Attenuator 18Ghz 25Watts 30db VSWR 1.35

TBAS1 Adaptor Kit

- 1 pc N-male to N-male
- 1 pc N-female to N-female
- 4 pcs N-male to SMA-female
- 2 pcs N-male to SMA-male
- 2 pcs N-male to SMB-female
- 4 pcs N-male to BNC-female
- 1 pc N-male to BNC-male
- 1 pc N-female to BNC-male
- 1 pc N-female to BNC-female
- 2 pcs N-female to SMA-female
- 2 pcs N-female to SMA-male
- 1 pc N-female to SMB-female
- 1 pc BNC-male to BNC-male
- 1 pc BNC-female to BNC-female
- 1 pc BNC-male to RCA-female
- 1 pc BNC-female to RCA-male
- 1 pc BNC-male to SMA-male
- 2 pcs BNC-male to SMA-female
- 1 pc BNC-female to SMA-male
- 2 pcs BNC-female to SMA-female
- 3 pcs SMA-female to SMA-female
- 3 pcs SMA-male to SMA-male
- 2 pcs SMA-male to SMB-male
- 2 pcs SMA-male to SMB-female
- 2 pcs SMA-female to SMB-female