

ACM6000T Automatic Calibration Module¹

The ACM contains two RF connectors for connection to VNA test ports, Mini-USB control port, several different transmission and reflection impedance states and electronic changeover switches. ACM6000T has six reflection states (three for each port) and a Thru. The precise S-parameters of the calibration impedance states are stored in the ACM memory (factory characterization data).



Measurement Range

Impedance	50 Ohm
Number of ports	2
Frequency range	20 kHz to 6 GHz
Number of characterization points	up to 1601

Hardware Configurations

Model	Connector type	
	Port A	Port B
ACM6000T - 011	type N, female	type N, female
ACM6000T - 012	type N, male	type N, female
ACM6000T - 111	3.5 mm, female	3.5 mm, female
ACM6000T - 112	3.5 mm, male	3.5 mm, female

Interface & Power

Interface	USB 2.0
Connector type	Mini USB B
Support standart	USBTMC-USB488
Power consumption	0.2 W

Effective System Data^{2,3}

20 kHz to 1 MHz	
Directivity	36 dB
Source match	32 dB
Load match	36 dB
Reflection tracking	0.15 dB
Transmission tracking	0.15 dB
1 MHz to 6 GHz	
Directivity	46 dB
Source match	40 dB
Load match	46 dB
Reflection tracking	0.04 dB
Transmission tracking	0.06 dB

Dimensions

Length	115 mm
Width	40 mm
Height	25 mm
Weight	0.35 kg (12 oz)

Environmental Specifications

Operating temperature	+5 °C to +40 °C (41 °F to 104 °F)
Storage temperature	-50 °C to +70 °C (-58 °F to 158 °F)
Humidity	90 % at 25 °C (77 °F)
Atmospheric pressure	70.0 kPa to 106.7 kPa

Port Input

Max power	0 dBm
Max DC voltage⁴	10 V
Damage level⁵	+18 dBm
Damage DC voltage⁵	35 V

[1] All specifications subject to change without notice. [2] VNA maximum effective parameters after calibration. [3] All parameters are determined in the temperature range of 23±5 °C with the temperature variation after calibration of no more than ±1 °C and output power of -5 dBm output. [4] Exceeding max values reduces VNA measurement accuracy. [5] Exceeding limit values results in ACM failure. Rev. 2019Q3

