

Product Datasheet - Technical Specifications



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ACM4000T Automatic Calibration Module

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. ACM4000T 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 ¹

Impedance	75 Ohm
Number of ports	2
Frequency range	20 kHz to 4 GHz
Number of characterization points	up to 1601

Hardware Configurations ¹

Model	Connector type	
	Port A	Port B
ACM4000T - 511	type N 75, female	type N 75, female
ACM4000T - 512	type N 75, male	type N 75, female

Effective System Data ^{1,2,3}

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 4 GHz	
Directivity	42 dB
Source match	39 dB
Load match	42 dB
Reflection tracking	0.10 dB
Transmission tracking	0.10 dB

Port Input ¹

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



Interface & Power ¹

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

Dimensions ¹

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

Environmental Specifications ¹

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

[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. 2019Q4

