

ACM2543 Automatic Calibration Module¹



Telemeter Electronic

Measurement Range

Impedance	50 Ohm
Number of ports	2
Frequency range	10 MHz to 44 GHz*
Number of characterization points	up to 1601

Hardware Configurations

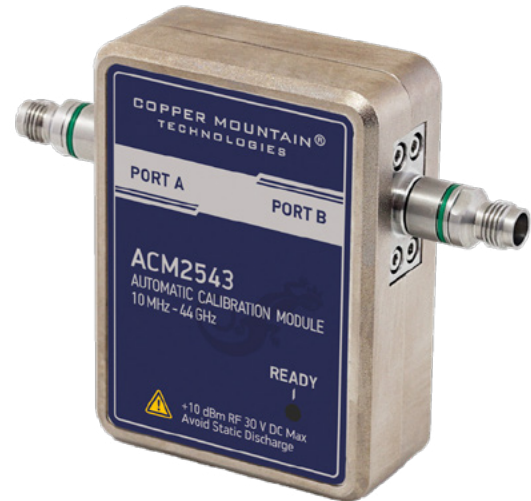
Model	Connector type	
	Port A	Port B
ACM2543 - 611	2.92 mm, female	2.92 mm, female
ACM2543 - 612	2.92 mm, male	2.92 mm, female
ACM2543 - 711	2.4 mm, female	2.4 mm, female
ACM2543 - 712	2.4 mm, male	2.4 mm, female

Effective System Data^{2,3}

10 MHz to 18 GHz	
Directivity	42 dB
Source match	38 dB
Load match	38 dB
Reflection tracking	0.10 dB
Transmission tracking	0.10 dB
18 GHz to 26.5 GHz	
Directivity	40 dB
Source match	34 dB
Load match	34 dB
Reflection tracking	0.15 dB
Transmission tracking	0.15 dB
26.5 GHz to 40 GHz	
Directivity	38 dB
Source match	32 dB
Load match	32 dB
Reflection tracking	0.15 dB
Transmission tracking	0.15 dB
40 GHz to 44 GHz	
Directivity	34 dB
Source match	30 dB
Load match	30 dB
Reflection tracking	0.20 dB
Transmission tracking	0.20 dB

Port Input

Max power	0 dBm
Max DC voltage ⁴	10 V
Damage level ⁵	+18 dBm
Damage DC voltage ⁵	35 V



Interface & Power

Interface	USB 2.0
Connector type	Mini USB B
Support standard	USBTMC-USB488
Power consumption	0.40 W

Dimensions

Length	87 mm
Width	65 mm
Height	22 mm
Weight	0.200 kg (7 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

[1] All specifications subject to change without notice. [*] All 2.92 mm models are only operational up to 40 GHz instead of 44 GHz. [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 -10 dBm output. [4] Exceeding max values reduces VNA measurement accuracy. [5] Exceeding limit values results in ACM failure. © Copper Mountain Technologies - www.coppermountaintech.com - Rev. 202102



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