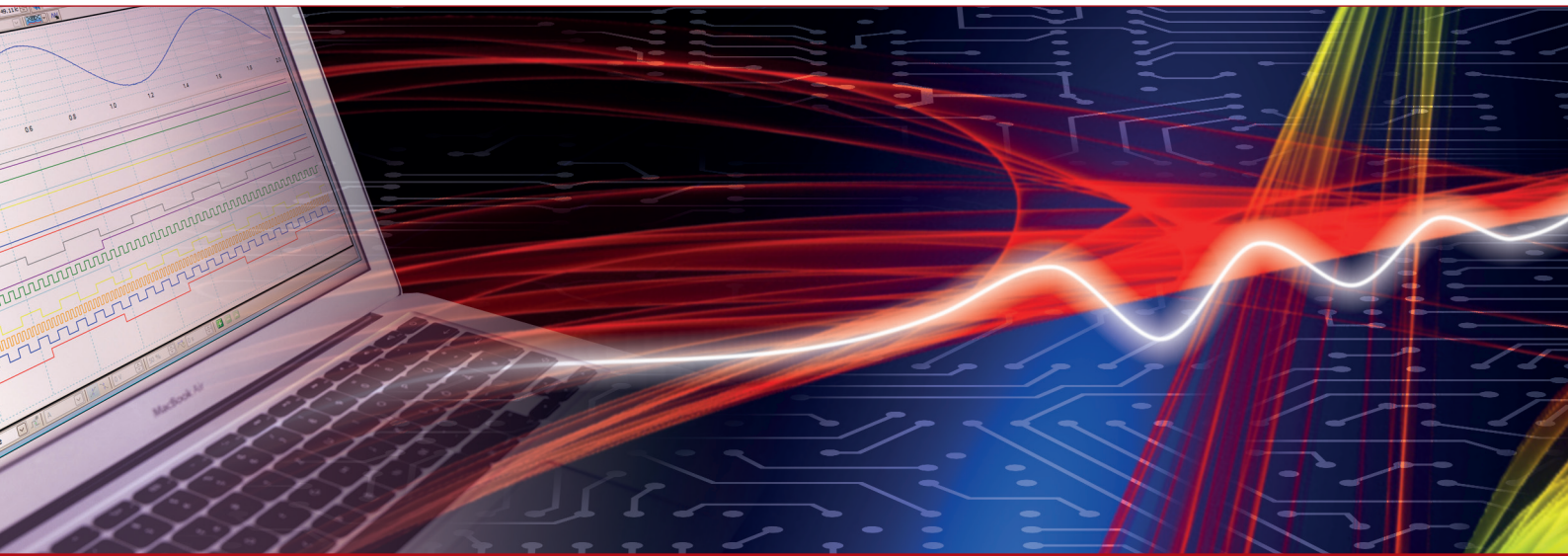


Product Datasheet - Technical Specifications



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ACM2520 Automatic Calibration Module¹

The ACM contains two RF connectors for connection to VNA test ports, USB Type B (female) control port, several different transmission and reflection impedance states and electronic changeover switches. ACM2520 has eight reflection states (four 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	100 kHz to 20 GHz*
Number of characterization points	up to 1601

Hardware Configurations

Model	Connector type	
	Port A	Port B
ACM2520 - 011	type N, female	type N, female
ACM2520 - 012	type N, male	type N, female
ACM2520 - 111	3.5 mm, female	3.5 mm, female
ACM2520 - 112	3.5 mm, male	3.5 mm, female

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	USB B
Support standart	USBTMC-USB488
Power consumption	0.25 W

Dimensions

Length	106.4 mm
Width	55.0 mm
Height	28.0 mm
Weight	0.435 kg (15 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

Effective System Data^{2,3}

100 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 9 GHz	
Directivity	46 dB
Source match	40 dB
Load match	46 dB
Reflection tracking	0.04 dB
transmission tracking	0.06 dB
9 GHz to 20 GHz	
Directivity	40 dB
Source match	36 dB
Load match	40 dB
Reflection tracking	0.04 dB
transmission tracking	0.06 dB

*All N-type models are only operational up to 18 GHz instead of 20 GHz. [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

