

## Product Datasheet - Technical Specifications



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**Meilhaus Electronic GmbH** | Tel. **+49 - 81 41 - 52 71-0**  
Am Sonnenlicht 2 | Fax **+49 - 81 41 - 52 71-129**  
82239 Alling/Germany | E-Mail [sales@meilhaus.com](mailto:sales@meilhaus.com)

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# ACM2506 Automatic Calibration Module<sup>1</sup>

The ACM contains two RF connectors for connection to VNA test ports, Mini-USB B control port, several different transmission and reflection impedance states and electronic changeover switches. ACM2506 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

<b>Impedance</b>	50 Ohm
<b>Number of ports</b>	2
<b>Frequency range</b>	20 kHz to 6.5 GHz
<b>Number of characterization points</b>	up to 1601

## Hardware Configurations

Model	Connector type	
	Port A	Port B
ACM2506 - 011	type N, female	type N, female
ACM2506 - 012	type N, male	type N, female
ACM2506 - 111	3.5 mm, female	3.5 mm, female
ACM2506 - 112	3.5 mm, male	3.5 mm, female

## Effective System Data<sup>2,3</sup>

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 6.5 GHz	
Directivity	46 dB
Source match	40 dB
Load match	46 dB
Reflection tracking	0.04 dB
Transmission tracking	0.06 dB

## Port Input

<b>Max power</b>	0 dBm
<b>Max DC voltage<sup>4</sup></b>	10 V
<b>Damage level<sup>5</sup></b>	+18 dBm
<b>Damage DC voltage<sup>5</sup></b>	35 V



## Interface & Power

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

## Dimensions

<b>Length</b>	115 mm
<b>Width</b>	40 mm
<b>Height</b>	25 mm
<b>Weight</b>	0.35 kg (12 oz)

## Environmental Specifications

<b>Operating temperature</b>	+5 °C to +40 °C (41 °F to 104 °F)
<b>Storage temperature</b>	-50 °C to +70 °C (-58 °F to 158 °F)
<b>Humidity</b>	90 % at 25 °C (77 °F)
<b>Atmospheric pressure</b>	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

