LA Techniques Ltd

EasyCal

LA19-17-01 8.5 GHz Electronic Calibration Module

The EasyCal module provides an efficient way to perform one and two port vector network analyzer calibrations. The convenience and speed of the EasyCal module means multiple calibrations can be performed and saved in seconds.

The EasyCal module is intended for use with LA Techniques' 8.5 GHz USB VNA. It is controlled from the host PC via a USB link. The module includes internal temperature control to ensure excellent accuracy and stability in typical operating environments.

Overview

Frequency range	300 kHz – 8.5 GHz
Impedance	50 Ω
Number of ports	2
RF Connectors	SMA
RF power	+10 dBm
RF power (no damage)	+20 dBm
RF port DC voltage (no damage)	±1 V
Factory data	Internal memory

Supported configurations (see note 1)

DUT	Port A	Port B
Non-insertable	Female	Female
Insertable*	Female	Male
Insertable*	Male	Female

* Using supplied adaptor

Effective port characteristics

Directivity	40 dB
Source match	40 dB
Load match	36 dB
Reflection tracking	0.05 dB
Transmission tracking	0.04 dB

Interface and control

Connection	USB 2.0
Connector	Micro USB
USB dc current	0.5 A
Indicator	Red (warming) Green (ready)

Dimensions

Length (ex RF connectors)	49 mm
Width	43 mm
Height (incl rubber feet)	15 mm
Weight	60 gm

Environmental conditions

Temperature (operating)	+10 ºC to +35 ºC
Temperature (operating*)	+18 ºC to +28 ºC
Temperature (storage)	-20 ºC to +50 ºC
Humidity (non-condensing)	80%
Vibration (5 Hz to 300 Hz)	0.5 G

*Internal temperature control operating range

Notes: 1. Option 1 reverses the sex of all connectors shown in the table. 2. Specification subject to revision without notice. 3. Please observe maximum ratings. Exceeding these is likely to cause permanent damage. 4. Effective port characteristics assume +18 to +28 ºC operating temperature and measurements taken at the calibration temperature.