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VEC-109EX

Specifications

Vectria Technologies

REVISIONS			
REV.	DESCRIPTION	DATE	APPR.
A	Released of specification	12/07/09	Reviv Levin
B	Update of specification	14/02/18	Reviv Levin

UNLESS OTHERWISE NOTED ALL PAGES ARE OF ORIGINAL ISSUE

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APPROVAL Reviv Levin	TITLE: VEC-109EX Specifications	

Product Description

The VEC-109EX features in-circuit high accuracy probing in the frequency range of 10MHz-15GHz reading accuracy of less than +/-1 Db,

And 15GHz-18GHz reading accuracy of less than +/-1.5 Db.

It does not require special feeding and can be connected via a proper SMA Cable to any relevant measurements equipment such as spectrum analyzer, network analyzer, power meter, frequency counter etc.

- Broadband Flat response
- Integrated matched ground returns
- Negligible effect on circuitry
- Input/output DC blocked

Available Optional Accessories

There are several optional accessories available for the VEC-109EX:

- VEC-104A – Calibration jig for best absolute power measurements accuracy.
- VEC-105A – 1meter low loss RF cable for accurate and reliable absolute high frequency measurements.

Electrical Specification

Frequency Range:	10MHz - 18GHz
Max average input (probed) power:	2 watt
Max Peak (probed) power:	25 watt
Max Input Voltage:	35V DC max
Residual Insertion Loss on probed line:	1dB max
Residual Return Loss on probed line:	14dBr min
Probing factor (Coupling at 10MHz-15GHz):	25dB ±1dB
Probing factor (Coupling at 18GHz):	25dB ±1.5dB
Coupling output VSWR:	2:1 min
Equipment output Impedance:	50 ohm
Input/output DC blocked	yes

Notes: All Electrical performances are related to 50ohm microstrip or back grounded coplanar, with proper side grounds and matched source/load impedance. Residual and coupling parameters relates to the band 10MHz - 18GHz.

Operating Temperature : +5°C to +40°C