FCB1 FRAnalyzer Calibration Box

Technical Data



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1 Technical data

1.1 Specifications

Table 1-1 *FCB1* Specifications

Characteristic		Rating
0 dB Attenuation	Tolerance as shipped (DC values)	< ±0.1 dB
	Stability (1 year)	< ±0.02 dB
	Stability (5 years)	< ±0.04 dB
	Frequency response (DC up to 10 MHz)	< 0.1 dB
20 dB Attenuation	Tolerance as shipped (DC values)	< ±0.1 dB
	Stability (1 year)	< ±0.03 dB
	Stability (5 years)	< ±0.06 dB
	Frequency response (DC up to 10 MHz)	= Ref
50 dB Attenuation	Tolerance as shipped (DC values)	< ±0.1 dB
	Stability (1 year)	< ±0.05 dB
	Stability (5 years)	< ±0.06 dB
	Frequency response (DC up to 10 MHz)	< ±0.10 dB
80 dB Attenuation	Tolerance as shipped (DC values)	< ±0.1 dB
	Stability (1 year)	< ±0.08 dB
	Stability (5 years)	< ±0.16 dB
	Frequency response (DC up to 10 MHz)	< 0.1 dB

Table 1-1 *FCB1* Specifications

Characteristic		Rating
Connectors		BNC
Cables	Impedance	50 Ω ± 2 Ω
	Inner conductor	Cu Ag 1x0.90 mm, ø 0.90 mm
	Insulation material	PE, ø 2.95 mm
	Shield	Cu Ag
	2nd Shield	Cu Ag
	Jacket	PVC (black), ø 5.50 mm
	Weight	57 kg/km
	Capacitance	97 nF/km
	Velocity of propagation	66%
Input		5 V/0 Hz … 10 MHz

1.2 Environmental conditions

Table 1-2 Climate

Characteristic		Rating
Temperature	Operating and storage	+5…+35 ºC (+41…+95 ºF)
Relative humidity	Operating and storage	45…75%; non-condensing Tested according to IEC 60068-2-78

1.3 Mechanical data

Table 1-3 Mechanical Data

Characteristic	Rating
Dimensions (W x H x D)	89.3 x 114.5 x 55.3 mm (3.5 x 4.5 x 2.2 in.)
Weight	<400 g (0.9 lb), without measuring cables

1.4 Safety standards

Table 1-4 Safety Standards

Certified Safety Standards	
Europe	EN 61010-1
International	IEC 61010-1
USA	UL 61010-1

1.5 Cleaning



Warning: Prior to cleaning disconnect the *FCB1*.

To clean the *FCB1*, use a cloth dampened with isopropanol alcohol or water.