



CIT-10

Conducted Immunity Test System

According to: IEC/EN 61000-4-6



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Features:

- Immunity measurements acc. to IEC/EN 61000-4-6 and BCI tests
- Signalgenerator, RF-power-amplifier, RF-power-meter and directional coupler (optional) in one 19" case
- Control-software included
- Most important parameters are shown on a integrated display
- Automatic EUT-monitoring
- Operation via serial port of a PC or Notebook
- Complete range of CDN´s available



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Specifications	CIT-10
RF Voltmeter (external input)	
Frequency range	10 kHz to 400MHz
Measuring range	+30 dBm to - 40 dBm
Accuracy	±0.5 dB
VSWR	< 1.1 : 1
Input	BNC, 50 Ohm
RF Generator	
Output	BNC, 50 Ohm
Frequency range	10 kHz to 400 MHz
Frequency resolution	1 Hz
Output level range	0 to - 60 dBm
Output level resolution	0.1 dB
Output level accuracy	±0.5 dB (± 1 dB max)
Accuracy (frequency)	±5 ppm (TCXO)
Harmonics	< -30 dBc;
Non harmonics	< -45 dBc
Amplitude modulation (internal)	0 to 100%; resolution 0.5% (internal AF Generator)
Amplitude modulation (external)	BNC jack 1 Hz to 100 kHz, 0 to 100% Input impedance > 100 kOhm
Pulse modulation	variable duty cycle 10 - 90%; resolution 1 % (internal AF Generator)
VSWR	< 1.5:1
AF Generator	
Output jack	BNC
Frequency range	1 Hz to 100 kHz
Frequency resolution	0.1 Hz
Output voltage	0 to 1 V amplitude; resolution 5mV
Accuracy (frequency)	±50 ppm
Signal	Sine wave / rectangular / triangle
RF Voltmeter (internal)	
Frequency range	10 kHz to 400 MHz
Measuring range	+53 dBm to - 10 dBm (before directional coupler)
Accuracy	±0.5 dB
Directional coupler 40 dB / forward & reverse power (optional)	
Frequency range	10 kHz to 400 MHz
Power	200 W CW
Insertion loss	0.5 dB max
VSWR	1.25 : 1 max
Directivity	20 dB min



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Power amplifier	
Frequency range	100 kHz to 230 MHz
Gain	51 dB \pm 1.5 dB
Output power	75 W nom. (CIT-10/75)
Distortion	<20 dBc
Input impedance	50 Ohm, VSWR < 1.5:1
Output impedance	50 Ohm nom.
EUT-fail input / TTL/CMOS compatible	
Input resistance	2.2 kOhm
Level	TTL/CMOS compatible
Amplifier monitor	
Output	BNC, 50 Ohm
Level	- 40 dB (amplifier output), \pm 3 dB
Interfaces	
USB-A	Multimeter (for EUT control)
USB-A	Relays switching unit
USB-B	Connection to computer
Display	
4 Lines	Frequency, level, $P_{forw.}$, $P_{refl.}$
General data	
Temperature range	0 to 40°C
Warm-up time	15 min.
Housing	19" Subrack or desktop case
Width / height / depth	84 DU / 3 HU / 410 mm
AC input	100 - 240 VAC; 50/60 Hz
Volume of delivery	CIT-10 (basic equipment), cabling, system software
Part Number	CIT-10/75 with integrated 75W power-amplifier;