

MODEL NUMBER:
RFCI-75

CONDUCTED IMMUNITY TEST SYSTEM ACC. TO ISO 11452-4 (BCI)



The EMC Shop's RFCI-75 conducted immunity test system generates and monitors interferences between 1 MHz and 400 MHz as set out per ISO 11452-4 and other automotive compliance test standards. The system is a portable, turnkey and easy to setup solution allowing engineers to quickly evaluate automotive products. Accessory bundles for BCI or TWC methods are supplied with each solution, including PC's and ground planes as required.

FEATURES

<ul style="list-style-type: none"> ▪ EASY SETUP AND TESTING 	
<ul style="list-style-type: none"> ▪ LIGHTWEIGHT AND PORTABLE 	
<ul style="list-style-type: none"> ▪ ACHIEVES 	<ul style="list-style-type: none"> → 400 mA substitute method → 200 mA closed loop
<ul style="list-style-type: none"> ▪ MEETS 	<ul style="list-style-type: none"> → ISO 11452-4 → FMC 1278 → GMW 3097 → many more

OVERVIEW:

- ✓ **COMPUTER-BASED SYSTEM (USB).**
- ✓ **SELF-CALIBRATION OF THE TEST SYSTEM (GENERATOR) BCI PROBE OR TWC PROBE**
- ✓ **RF-GENERATOR, AMPLIFIER AND RF-VOLTMETER MAY AS WELL BE USED AS STAND-ALONE DEVICES**
- ✓ **CONNECTIONS: EUT "FAIL", EUT MONITORING BY EXTERNAL MULTIMETER, E.G. DUT SIGNAL**
- ✓ **CALIBRATION OF COUPLING/DECOUPLING DEVICES AND EM CLAMP IS PERFORMED AUTOMATICALLY**
- ✓ **EASY EXTERNAL AMPLIFIER INTEGRATION**

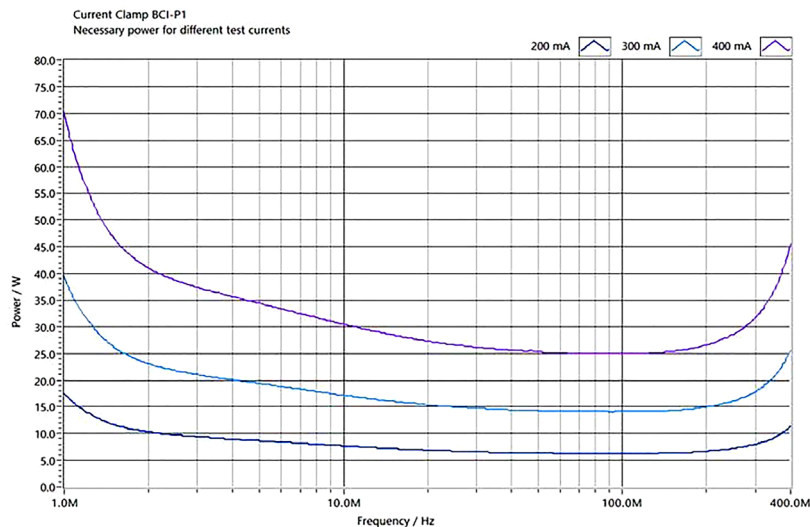
TECHNICAL DATA

RF VOLTMETER (EXTERNAL INPUT)	
Frequency range	10 kHz - 400 MHz
Measuring range	+30 dBm to - 40 dBm
Input	BNC, 50 Ohm



RFCI-75 MAIN SPECIFICATIONS

RF GENERATOR	
Output	BNC, 50 Ohm
Frequency range	10 kHz - 400 MHz
Frequency resolution	1 Hz
Output level range	0 to -63 dBm (level resolution 0.1 dB)
Amplitude modulation	0 - 100%; resolution 1% (internal AF-Generator)
Amplitude modulation (ext.)	BNC jack, Input impedance > 100 kΩ 1 Hz to 100 kHz, 0 to 100%
Pulse modulation	1 Hz to 100 kHz, Resolution 0,1 Hz duty cycle 5 - 95 %; resolution 1% (internal AF-Generator)
AF GENERATOR	
Output jack	BNC
Frequency range	1 Hz - 100 kHz, resolution 0.1 Hz
Output voltage	0 - 1 V amplitude
Signal	Sine wave / rectangular / triangle
POWER AMPLIFIER	
	RFCI-AUTO
Frequency range	100 kHz - 400 MHz
Gain	51 dB ±1.5 dB
Output power	75 W nom.
Distortion	< 20 dBc at 50 W
Input impedance	50 Ohm, VSWR < 1.5 : 1
Output impedance	50 Ohm nom
EUT-fail input	BNC socket



EUT-MONITOR INPUT	
Input voltage	0 - 10 V (resolution 2.5 mV), impedance 100 k Ω
AMPLIFIER MONITOR	
Output	BNC, 50 Ω / -40 dB (amplifier output), \pm 3 dB
INTERFACES	
USB-A	Multimeter (for EUT control) and Relays switching unit
USB-B	Connection to Computer
GENERAL DATA	
Temperature range	0 - 40 $^{\circ}$ C
Housing / weight	19" desktop case (84 TE; 3 HE) / aprox. 11 kg
Width / height / depth	app. 450 / 150 / 480 mm
AC Input	100 - 240 VAC; 50/60 Hz

BCIP400M

- Clamp for Bulk Current Injection (BCI)
- Frequency range 1 – 400 MHz
- For cables up to \varnothing 40mm
- Included calibration set

CMP400M

- Current monitoring probe 10 kHz – 400 MHz, foldable
- For cables up to \varnothing 45mm
- Option: Calibration set **RFCI-CMP-CAL**

STANDART KIT

- RFCI-75 Mainframe
- RFCI-Cable-Kit
- RFCI Attenuator Set
- User Manual
- Software Dongle
- PC Interface Cable
- Calibration Certificate
- AC Powe Chord
- Two Year Warranty

