

Radio Frequency Conducted Immunity Test System

RIS-6091 [Introduction]

The RIS-6091 is a sophisticated and versatile Radio Frequency Conducted Immunity Test Syste m developed. The main unit is equipped with a built-in signal generator, power meter, directional coupler, and power amplifier module. Additionally, it supports the expansion of using external power amplifier modules to extend its testing capabilities, encompassing CS testing in accordance with IEC 6 1000-4-6 standards, BCI testing for automotive electronics as specified in ISO 11452-4 standards, and other high-current testing applications.

It is noteworthy that has developed and manufactured a variety of CS Coupling/Decoupling Netw orks with excellent high-frequency impedance characteristics. These CDNs meet the impedance requirements specified in the standards across the full frequency range from 150 kHz to 230 MHz and can be paired with any brand of CS testing system. Furthermore, they come in various specifications and models, catering to different testing needs, ranging from power lines to signal lines.

Technical Features

- Upper computer control, equipped with standard professional testing software in both Chinese and English versions, featuring complete functions and excellent scalability.
- ◆ A comprehensive range of coupling/decoupling networks of various specifications to meet the needs of different test ports. Full system frequency range: 150 kHz to 230 MHz.
- Built-in signal generator frequency range: 9 kHz to 3 GHz.
- Built-in power amplifier frequency range: 150 kHz to 230 MHz, with options of 35 W or 85 W.
- Built-in power meter: 100 kHz to 400 MHz.
- Fully automatic calibration, fully automatic testing, and output power monitoring during the testing process.
- External expansion capabilities to support BCI testing.

Parameter List

Specification Model	RIS-6091		
Output Voltag	35 W Power Amplifier	Electromagnetic Clamp Method	domestically produced: 1 \sim 10 Vrms



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			imported: 1 ~ 25 Vrms	
		CDN Method	1 \sim 30Vrms	
		Electromagnetic Clamp Method	domestically produced: 1 \sim 16 Vrms	
			imported: 1 \sim 40 Vrms	
85 W Power	85 W Power Amplifier	Current Clamp Method	domestically produced: 1 \sim 7 Vrms	
			imported: 1 \sim 18 Vrms	
		CDN Method	1 \sim 30 Vrms	
Output Impedance	50 Ω			
VSWR	≤ 1.2			
Signal Source				
Frequency	9 kHz \sim 3 GHz			
Output Level	-120 ∼ +10 dBm			
Unmodulated Signal	Continuous Wave			
Specification Model	RIS-6091			
Modulation Mode	Amplitude Modulation Modulation Frequency: $0.1 \text{Hz} \sim 1 \text{MHz}$ Modulation Depth: $0 \sim 100\%$ Pulse Modulation Modulation Period: $200 \text{ns} \sim 160\text{s}$ Pulse Width: $100 \text{ns} \sim 85\text{s}$ On-Off Ratio: $\geq 65 \text{dB}$			
Power Amplifier				
Output Frequency	150 kHz \sim 230 MHz(Scalable to 10 kHz \sim 400 MHz)			
Maximum Output Power	+44 dBm/35 W(Scalable up to +49 dBm/85 W)			
Harmonic	< 15 dBc			
Power Meter				
Input Frequency	100 kHz \sim 400 MHz			
Input Power	-40 dBm \sim +30 dBm			

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System Configuration		
Software	Support for Windows	
Control Interface	USB	
Output Interface	N-type Connector	
Dimensions	19"/4 U	
Weight	20 kg	