

# Automotive spark immunity simulator

TBZ-50



TBZ-50

As per

- > GB/T 19056-2012
- > JT-T 794-2011

Description

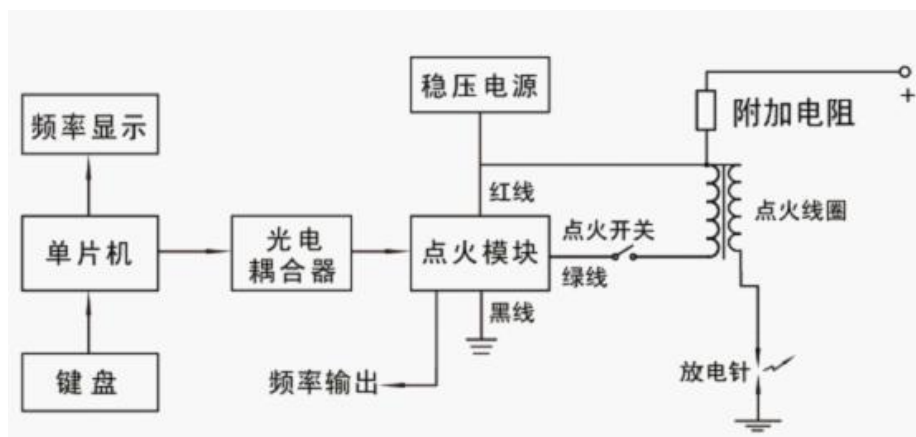
TBZ-50 automotive spark immunity simulator is mainly designed for vehicle electronic equipment such as taximeter and vehicle traveling data recorder. Frequency signal controlled by single chip is output to ignition module. Ignition coil controlled by ignition module produce HV pulse to form reliable spark with adjustable frequency and spark gap. Frequency value of spark is displayed on nixie tube.

Test condition

- > DC voltage: 13V
- > discharging gap for needle: 10mm
- > space interference distance: 0.5m
- > DC mains load: 300mA
- > operating mode: 12~200Hz sweep frequency

Industries

- > automotive >
- >



schematic diagram

频率显示: frequency display

单片机: Single chip

键盘: keyboard

光电耦合器: photoelectric coupling

稳压电源: stabilized voltage supply

点火模块: ignition module

频率输出: frequency output

红线: red line

黑线: black line

绿线: green line

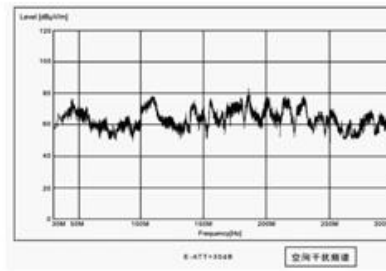
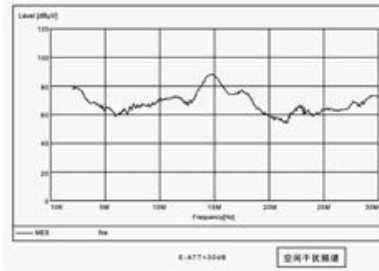
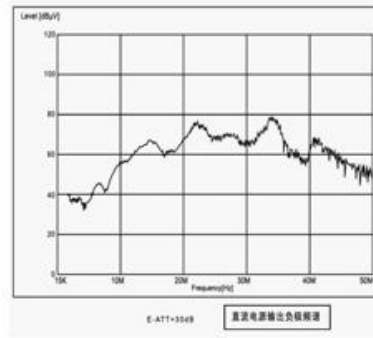
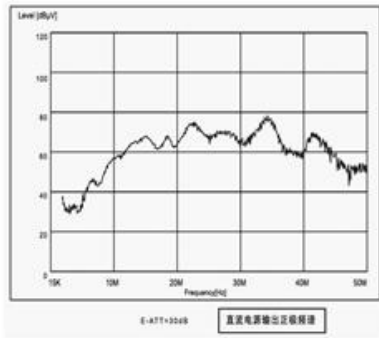
点火开关: Ignition switch

附加电阻: additional resistor

点火线圈: ignition coil

放电针: discharging needle

Technical parameters	
Spark frequency range	12~200Hz
Frequency output	12~200Hz
Frequency resolution	±0.1%
Discharging voltage	10~20kV
Discharging gap	5~15mm
DC output power	36W
Dimension	52×34×12cm





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