E1 set

Immunity Development System



Short description

The E1 is a set of EMC tools used for EMI suppression in printed circuit boards during the development phase. The developer can use the E1 set to quickly identify the causes of burst and ESD interference. This allows the developer to design suitable measures to solve the causes of the interference. It can also be used to test the effectiveness of the measures taken. The E1 test set-up is small and fits easily on a developer's desk. The E1 set user manual describes EMC mechanisms and provides detailed descriptions of basic measuring strategies for interference suppression in printed circuit boards. The E1 set includes a generator to generate burst and ESD disturbances.

Scope of delivery

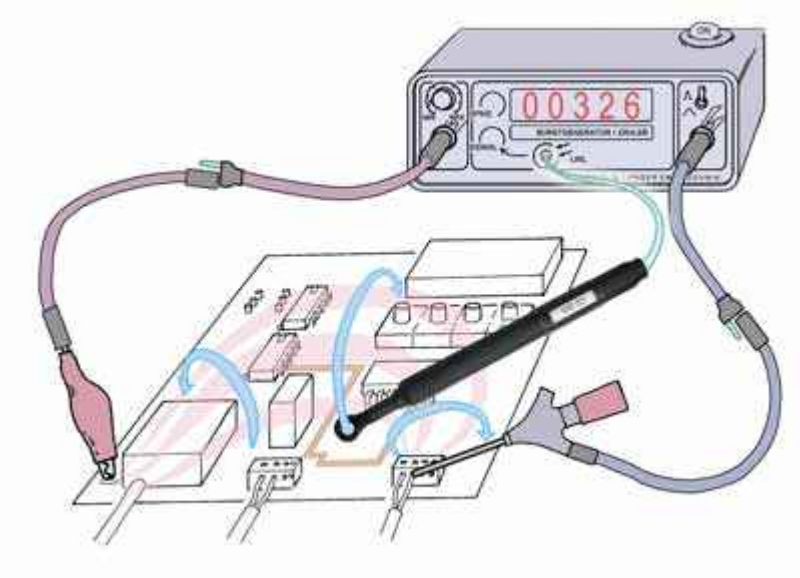
1x SGZ 21, Burst Generator
1x BS 02, Magnetic Field Source
1x BS 05D, Magnetic Field Source
1x ES 00, E-Field Source
1x ES 02, E-Field Source
1x ES 08D, E-Field Source
1x E1 acc, Accessories
1x E1 case, System Case
1x S21, Optical Sensor (10 Mbps)
1x BS 04DB, Magnetic Field Source
1x BS 05DU, Magnetic Field Source
1x ES 01, E-Field Source
1x ES 05D, E-Field Source
1x MS 02, Magnetic Field Probe
1x NT FRI EU, Power Supply Unit
1x E1 m, E1 Set User Manual

Sales Partner:
ABSOLUTE EMC
ABSOLUTE EMC Llc.
Covering sales in North America
United States, Mexico, & Canada
absolute-emc.com
Phone:703-774-7505
info@absolute-emc.com

Technical parameters

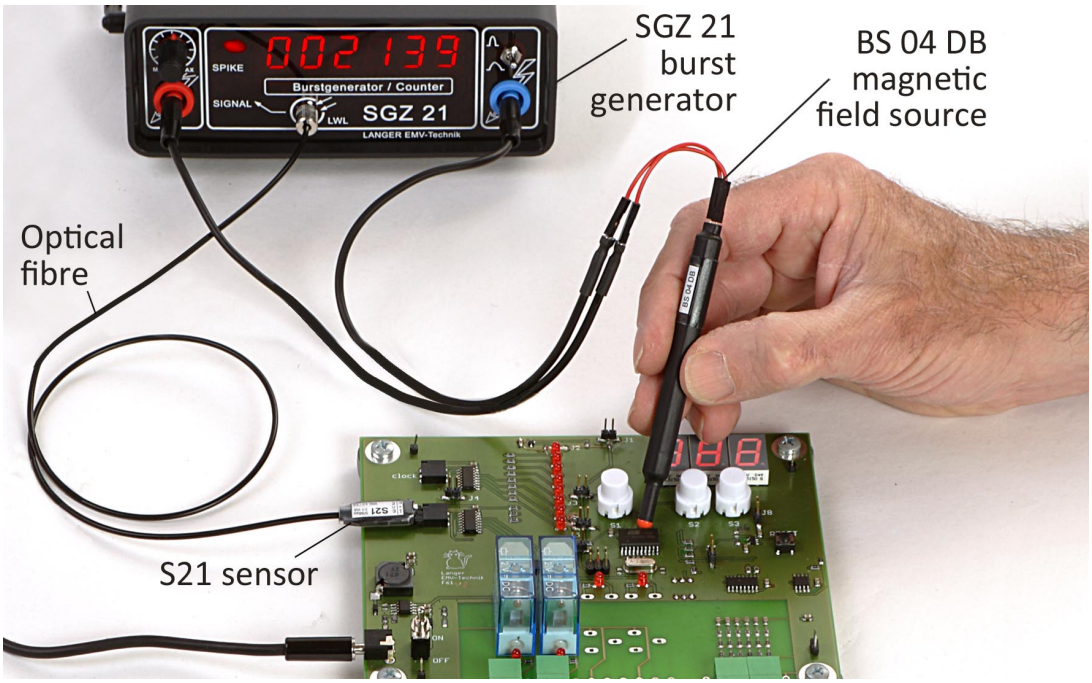
S21 optical sensor	
Transmission range	DC...10 Mbps
Optical fibre connector	2.2 mm Ø
Supply voltage	(3-5) V
Current input	10 mA
SGZ 21 burst Generator	
Pulse parameter	
Rise time	ca. 2 ns
Tail time	ca. 10 ns
Peak values	ca. 0...1500 V
Optical input	
Optical fiber	2.2 mm
Max. frequency	5 MHz
Min. pulse width	100 ns
Supply voltage	12 V / 200 mA
Sizes (L x W x H)	(154 x 100 x 62) mm

Measuring principles



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Application with BS 04 DB

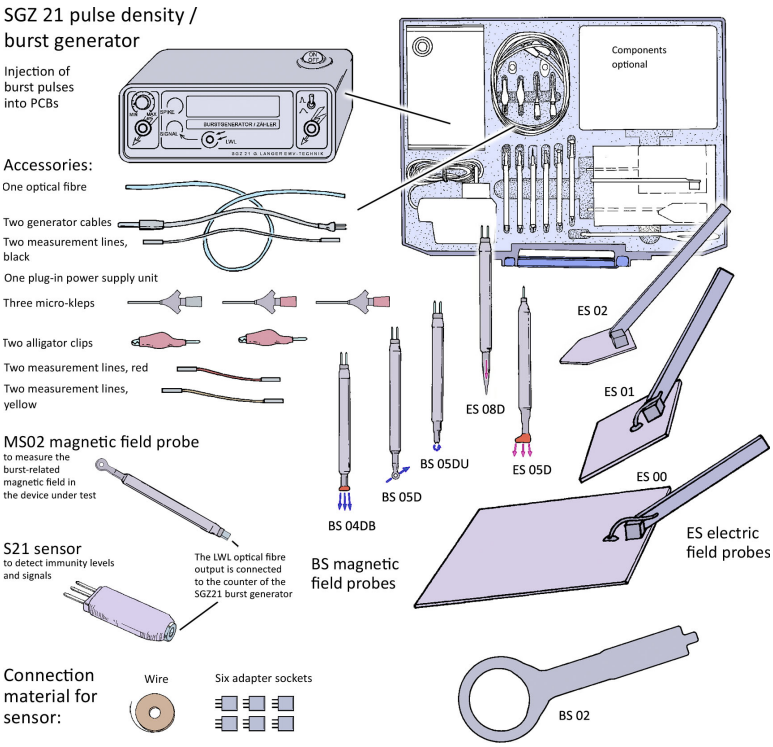


Scope of delivery E1



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Exploded view drawing E1



Application with MSA 02 magnetic field probe from the S2 set

