P1302-4 50R
EFT/Burst E-Field Source

Short description

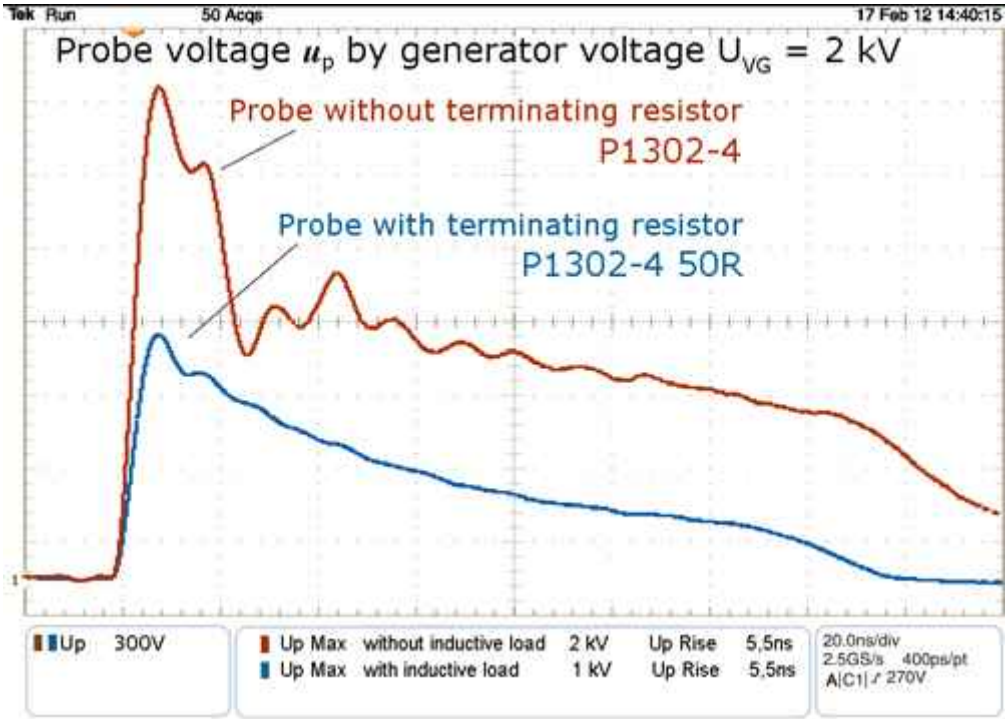
The P1302-4 50R EFT/Burst E field source is used to determine IC immunity against the coupling of electric EFT-pulse fields. It has a 50 Ohm internal terminating resistor.

The P1302-4 50R field source is powered by an EFT/Burst generator (IEC 61000-4-4). With its terminating resistance it synchronizes with the EFT/Burst generator. Therefore, an ideal EFT/Burst current pulse is generated. In the conductor of the field source without an internal terminating resistor, the current is twice that of the field source with an internal terminating resistor (P1302-4).
The P1302-4 50R field source is arranged in a defined distance above the IC with the help of a spacer ring.
It has two connections. A Fischer socket (D103A023) for the connection to the EFT/Burst generator and a SMB measurement output for the connection of an oscilloscope for monitoring the EFT voltage. The delivery includes the HV FI-FI 1m RF cable (Fischer connector-Fischer connector). On request, the RF cable with the connections Fischer socket-SHV socket (HV FI-SHV 1m) can be ordered.

Technical parameters

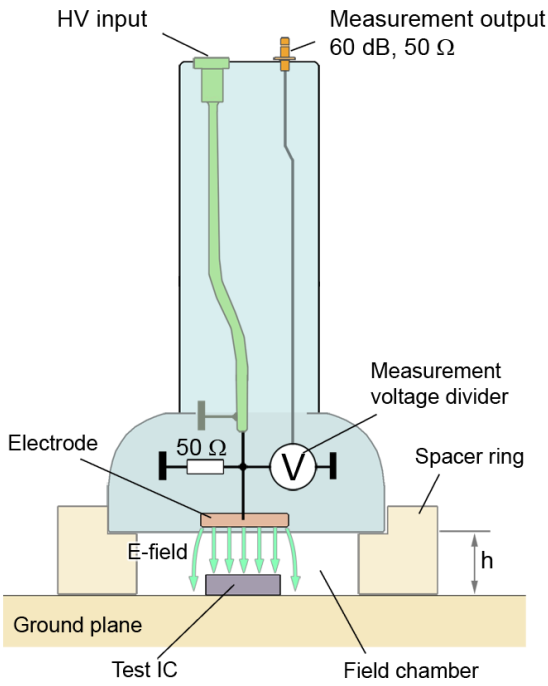
Input resistance	50 Ω
Pulse parameter	
Shape	5 / 50 ns
Voltage	max ±8 kV
Voltage probe	
Correction factor	60 dB
Measurement output	50 Ω, SMB
Connector - input	50 Ω Fischer (D103A023)
Sizes (L x W x H)	(180 x 96 x 96) mm

Pulse shape (measured)



Design, view 1

P1302-4 50R EFT/burst E-field source



Design, view 2