

P12

Mini Burst Field Generator (B)



Short description

The P12 mini burst field generator creates a magnetic disturbance field, which functions like a coupling clamp. This allows the disturbance current to be coupled into single conducting paths, IC pins, SMD components, and thin cables (flat cables). To measure, the P12 can be positioned onto the device under test.

An assembly (device under test) often has a majority of less-sensitive and insensitive signal connections (conducting paths, IC pins). The sensitive signal connections can be easily detected by the mini burst generator and protected through appropriate layout changes. Conventional generators and test stations can be used to determine whether a device complies with the standard noise immunity required by law. However, weak spots on an assembly can not be precisely located. Detailed information about their location, susceptibility and type of action (E-field or B field susceptibility) are required to easily and efficiently locate them on the printed circuit board and eliminate them. Mini burst field generators are handy and can be used at the developer's own workspace.

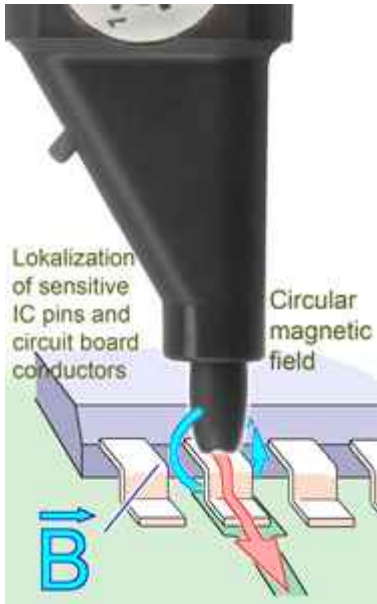
Technical parameters

Generated magnetic flux density	ca. 1 mT
Pulse parameter	
Pulse width	2 ns ... 8 ns
Frequency	single / 5 kHz
Polarity	switchable
Supply voltage	1.5 V / AAA
Weight	30 g
Sizes (L x W x H)	(118 x 24 x 13) mm

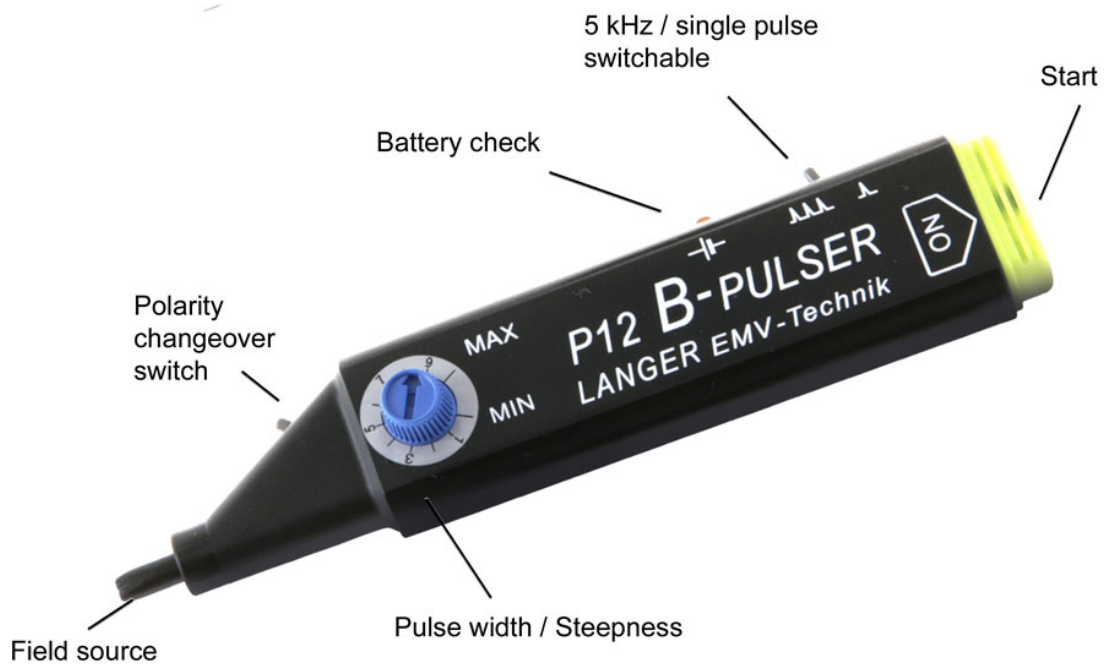
P12

Mini Burst Field Generator (B)

Measuring principles



Design of P12 mini burst field generator



P12

Mini Burst Field Generator (B)

Application with P12

