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FastEdge[®]

USB Fast Edge Pulse Generator

Datasheet



About USB Fast Edge Pulse Generator

The „FEGDE“ is a fast edge signal generator that provides a square ~32ps pulse in a USB stick size. Single button operation allows selection of different operating modes. The -500mV, 50Ohm output signal is very square and flat, without overshoot or undershoot making it perfect for verifying instrument and probe rise/ fall times, as well as verifying signal path rise/ fall time and undershoot/ overshoot. PMK also offers an optional 10GHz power splitter that allows the signal generator to be used as reflectometer for measuring PCB coupons, cable and PCB trace impedance, verifying cable crimps, measuring trace and cable lengths, dielectric constant and many other applications.

KEY-FEATURES

- Step 500mV / 32ps, >10 GHz
- System identification
- Bandwidth measurements and tests
-probe and oszilloscope
- EMV tests: -radiated, -conducted
- TDR measurements

Default Settings (programs)

| Program | Red | Yellow | Green | Default |
|---------|-----|--------|-------|---------------|
| 1 | X | | | Ground |
| 2 | | X | | DC |
| 3 | X | X | | 1 kHz square |
| 4 | | | X | 10kHz square |
| 5 | X | | X | 100kHz square |
| 6 | | X | X | 1 MHz square |
| 7 | X | X | X | 10 MHz square |

Default Settings (programs)

| Environmental Specifications | | |
|------------------------------|---------------|---|
| Altitude | operating | up to 2000m |
| | non-operating | up to 15000m |
| Temperature Range | operating | 0°C to +50°C |
| | non-operating | -40°C to +71°C |
| Maximum Relative Humidity | operating | 80% relative humidity for temperatures up to +31°C, decreasing linearly to 40% at +50°C |
| | non-operating | 95% relative humidity for temperatures up to +40°C |

Scope of Delivery

| Order No. | Item | Qty |
|-------------|-------------------------------|-----|
| 018-120-018 | USB Fast Edge Pulse Generator | 1 |

Manufacturer

PMK Mess- und Kommunikationstechnik GmbH
Koenigsteinerstrasse 98
65812 Bad Soden am Taunus, Germany

Phone: +49 (0) 6196 5927 - 930
Fax: +49 (0) 6196 5927 - 939

Internet: www.pmk.de
E-Mail: sales@pmk.de

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