

8000 Series EOS/ESD Protection Module

▶ 80A02



The **80A02 EOS/ESD Protection Module** protects the sampling bridge of Tektronix electrical sampling module inputs from damage due to electro-overstress (EOS) and electro-static discharge (ESD) from circuit boards and cables. The 80A02 is intended for use in applications such as electrical TDR circuit board testing and cable testing where large static charges can be stored in the DUT.

The 80A02 plugs into any available electrical sampling module plug-in slot of the TDS/CSA8000 Series, legacy CSA11K Series, or legacy CSA803 Series sampling oscilloscopes.

The 80A02 provides a front panel SMA connector for connecting the SMA test cable or probe signal from the DUT. The 80A02 passes the acquired DUT signal to a connected electrical sampling module input for measurement after an actuating control (from the matching P8018 high-performance probe, or customer provided external switch, TTL, or CMOS control logic input) which signals the 80A02 that the DUT has been grounded to discharge any electro-static charge remaining in the DUT.

When used with the matching P8018 20 GHz single-ended handheld probe (with probe tip pressure actuating feature) the 80A02 provides a superior technique and performance capability for single-channel electrical sampling module EOS/ESD protection of acquired electrical signal and TDR measurement. (See P8018 product description.)

▶ Features & Benefits

Single-channel Electro-static Discharge (ESD) and Electro-overstress (EOS) Damage Protection for Tektronix Electrical Sampling Modules

Plugs into and is Powered from Sampling Mainframe

Compatible with Tektronix Extender Cables

<37 ps Reflected Rise Time When Used with 80E04 or SD24 Electrical Sampling TDR Modules

▶ Applications

Electrical Sampling Module Input Protection for High-speed Electrical Signal Analysis

Circuit Board Controlled Impedance Testing (TDR)

COMPUTING

COMMUNICATIONS

VIDEO

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▶ Characteristics

Bandwidth – >25 GHz.

Applicable Mainframes – TDS8000 Series, CSA8000 Series, CSA11800 Series, CSA803 Series.

Connector Type – SMA female.

Manual Control Input –

Open circuit for DUT discharging standby state.
Closed circuit (<100 k Ω to ground) for measurement.

Automated Control Input –

Open circuit or logic low (<0.3 V) for DUT discharging.
Closed circuit or logic high (>1.0 V) for measurement.

Control Signal Connector – Audio stereo phone mini-jack.

Switching Time – 20 ms (typical).

▶ Ordering Information

80A02

EOS/ESD Protection Module, Single-Channel.

Includes: User Manual, 1 – SMA 50 Ω termination cap, 1 – 12 inch length 20 GHz SMA cable.

Replaceable Items

015-1022-01 – SMA 50 Ω Termination.

174-4878-00 – 20 GHz SMA Cable (12 Inch Length).

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Our most up-to-date product information is available at:
www.tektronix.com



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