

80A02 EOS/ESD Isolation Module for the DSA8300

Datasheet



The 80A02 EOS/ESD Isolation module protects the sampling bridge of Tektronix DSA8300¹ electrical sampling module inputs from damage due to electro-overstress (EOS) and electrostatic discharge (ESD) from circuit boards and cables. The 80A02 is for applications such as electrical TDR circuit board testing and cable testing where large static charges can be stored in the DUT.

Key features

- Single-channel electrostatic discharge (ESD) and electro-overstress (EOS) damage protection for Tektronix DSA8300 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

Specifications

Bandwidth	>25 GHz
Applicable mainframes	DSA8300 Series, DSA8200 Series, 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 kΩ 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, typical	20 ms

Applications

- Electrical sampling module input isolation for high-speed electrical signal analysis
- Circuit-board controlled impedance testing (TDR)

The 80A02

The 80A02 plugs into any available electrical sampling module plug-in slot of the DSA/TDS/CSA8K Series, legacy CSA11K Series, or legacy CSA803 Series sampling oscilloscopes.

The 80A02 provides a front-panel SMA connector to connect 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 P80318 or P8018 high-performance probe, or customer-provided external switch, TTL, or CMOS control logic input) signals the 80A02 that the DUT has been grounded to discharge any electrostatic charge remaining in the DUT.

When used with either matching P80318 or P8018 20 GHz handheld probe (with probe tip pressure actuating feature) the 80A02 provides a superior technique and performance capability for electrical sampling module EOS/ESD protection of acquired electrical signal and TDR measurement. (See P80318 or P8018 product description.)

¹ Also compatible with DSA8200, TDS/CSA8200, TDS/CSA8000B, and TDS/CSA8000 sampling oscilloscopes.

Ordering information

Models

80A02	EOS/ESD Isolation Module, single channel
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Standard accessories

071-1317-xx	80A02 user manual
015-1022-01	SMA 50 Ω termination cap
174-4878-xx	20 GHz SMA cable, 12 inches

Recommended accessories

174-5230-xx	SlotSaver Adapter Extender Cable. Provides power and control to the 80A02 when operated externally from the DSA/TDS/CSA mainframe, saving slot space (compatible with 80A06 ² and 80A02).
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Warranty

90 days.



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product Area Assessed: The planning, design/development and manufacture of electronic Test and Measurement instruments.

² Not compatible with DSA8300.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3010
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea 001 800 8255 2835
Spain 00800 2255 4835*
Taiwan 886 (2) 2722 9622

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 800 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

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