

EOS-500 Electrical Overstress Pulse Generator



1. Description

The model EOS-500 is a 50 Ohm output impedance pulse generator designed for general EOS tests with pulse width adjustable from ns to ms range.

2. Features

- Compact Design
- 50 Ω Output resistance
- Touch Panel User Interface
- Continuous Digitally Adjustable Pulse-width from ns to ms range
- Optional software controlled automatic measurement
- Optional automatic failure detection includes DC spot check and static IV

3. Applications

- General EOS failure test and analysis for wafer level device, PCB module, system hot plug, etc.
- Integrated with automatic measurement software for device safe operation area tests.

4. Specifications

Parameters	EOS-500	Unit	Comments
Output voltage @ open load	1 - 1000	V	
Output voltage @ 50 Ω load	0.5 - 500	V	
Min voltage step	0.1	V	
Output voltage precision	$\pm 5\% \pm 0.1$ V		
Output current @ short load	0.02 - 20	A	
Output current @ 50 Ω load	0.01 - 10	A	
Output Resistance	50	Ohm	
Peak power @ 50 Ω load	5000	W	Transient Peak Power
Fastest Risetime @ 50 Ω load	20	ns	Can customize multiple options
Pulse Width Adjustable Range	0.1 – 1000	us	
Pulse Width Adjustable Step	± 5	ns	
Pulse Width Precision	$<\pm 10$	ns	
Pulse Plateau Drop	≤ 1	%	@ 1ms, short load
Dimensions	19" X 10.5" X 19.5"	inch	
Weight	15	kg	

Note: 2 Ohm output impedance EOS-500 pulse generator is customizable.

5. Ordering Information

Line	Part # or Option #	Description
Electrical Overstress Pulse Generator		
1.1	EOS-500	Model EOS-500 Electrical Overstress Pulse Generator, 0.1 us – 1ms Max 500V, USB Supported
Additional Options		
2.1	CP-001	Passive current probe, 0.01 V/A
2.2	ES62X-PC	PC with automation test software installed
2.3	ES62X-A11	Package level EOS-500 automation test accessories
2.4	KSMU2400	SMU, 200V, 1A, 20W, Single Channel (For device DC automation failure check))
2.5	ES62X-CMPS	Compact Manual Probe Station
2.6	ES62X-A11	Wafer level EOS-500 automation test accessories

Some of the measured EOS Pulse Waveforms

Page 2



