

ESS-200

Very Heavy Duty Ethernet Line Surge Suppressor

The ESS-200 is a very heavy duty Ethernet line surge suppressor designed to protect sensitive electronic equipment from damage caused by voltage transients appearing on an ethernet line. The ESS-200 is designed to protect equipment that is connected to a standard 10Base-T ethernet line. Designed using the proven technology of our TSS-200 TELCO suppressor, it is ideal for harsh environments (e.g. electric utility substations).

What distinguishes the ESS-200 from other suppressors is our unique two-stage design. Very high speed bi-directional SIDACTORS™ work in combination with a three-element heavy-duty gas discharge tube to provide a suppressor that has an extremely fast response time yet can also dissipate large amounts of energy. Ultra-fast switch-mode rectifiers are used to reduce the ESS-200 shunt capacitance. Inter-stage wirewound resistors provide better surge current handling than competing carbon-film designs. Wide PC board traces and ground planes provide additional surge handling capability. A standard 36-inch CAT 5 jumper cable is included.



MAXIMUM SPECIFICATIONS

Surge Current	
ANSI C62 (8 x 20 μ S) Pins 1-2-GND, 3-6-GND	20,000 Amps
Energy Dissipation	
10 x 1000 μ S pulses at 500 Amps	2,000 Joules
Instantaneous Clamping Voltage	
Pins 1-2-GND, 3-6-GND	\pm 58 Volts P-P
Clamping Time	\approx 1 nanosecond
In-circuit Series Resistance	5 ohms
Capacitance	14pF
Input/Output Jacks	
USOC RJ-45 8-pin modular receptacles	
Protected pins 1-2 and pins 3-6 (two pairs)	
Ground Wire	
8-ft. AWG 16 stranded with #10 ring terminal	
Mounting	
Double-sided adhesive square or screw mount	
Size: 2.5"W x 4-3/8"H x 1"D	
Enclosure: High-impact, injection-molded ABS plastic	
Included: Standard 36-inch CAT 5 jumper cable	

ORDERING INFORMATION

The ESS-200 should be specified to protect electronic equipment that is connected to a standard 10Base-T ethernet line. The ESS-200 provides protection on pins 1 and 2 and pins 3 and 6 of the modular jack interface (two pairs).

 **TECHNICOM, INC.**

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1221 St. Johns Avenue
Stallings, NC 28104

info@technicom-inc.com
http://www.technicom-inc.com

PHONE: (704) 821-9930
FAX: (704) 821-9930