

EMC Components

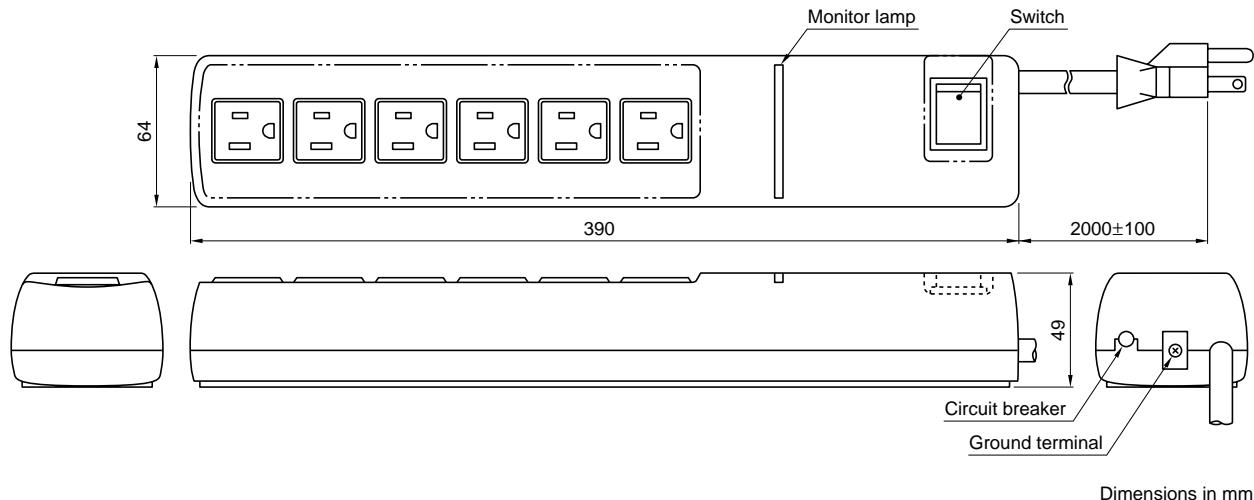
EMC Filters for AC Power Supply Adapters

TNS-115S Series

FEATURES

- This is a six-outlet power strip with built-in surge suppressor and common-mode choke coil. The coil features an amorphous magnetic core.
- Provides excellent protection from lightning induced power surges and effectively filters impulse noise and other sources of interference from power lines.
- A built-in monitor lamp provides a visual indication of the condition of the surge absorption element.
- A circuit breaker is included for protection against overcurrent from excessive loads.
- This product is recommended not only for the prevention of malfunctions in office automation equipment but also for improving the stability and performance of audio and video equipment. It is also ideal for maintaining the reliability of measurement devices.

SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

Part No.	TNS-115S	
Rated voltage Erms(V)	125	
Rated current Irms(A)	14.5	
Power supply frequency(Hz)	50/60	
Insulation resistance (MΩ)	[DC. 100V, 1min/between terminal No.1, 2 and ground terminal] [DC. 100V, 1min/between terminal No.1 to 2]	100min. 0.1min.
Leakage current(mA)	[AC. 125V • 60Hz]	0.5max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 25dB Common-mode at 25dB	0.5 to 3 0.5 to 1.5
Pulse attenuation characteristics input pulse voltage (kV) [Input pulse width: 1μs]	Common-mode at 20dB	2
Transient suppression voltage(V)	[Between line to line, 1.2/50μs 6kV surge applied] [Between line to G, by UL1449, 24 *1]	2000max. 1000max.
Illumination of operating indication lamp(lx)	[AC. 120V, 50/60Hz*2]	1min.
Operating temperature range(°C)	0 to +40	
Storage temperature range(°C)	-25 to +70	
Operating humidity range(%)RH	15 to 85[Maximum wet-bulb temperature: 38°C]	
Storage humidity range(%)RH	5 to 85[Maximum wet-bulb temperature: 38°C]	

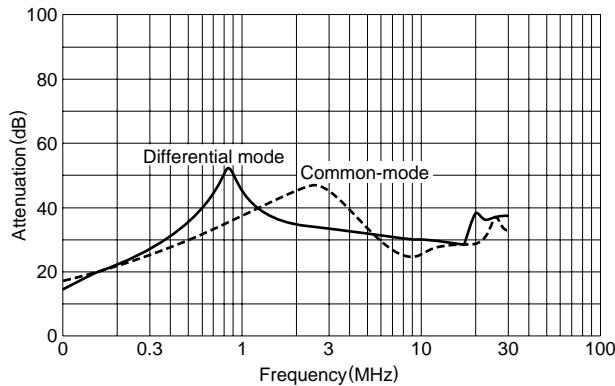
*1Capacitance of test equipment for surge: 1.3μF *2 1cm from monitor window

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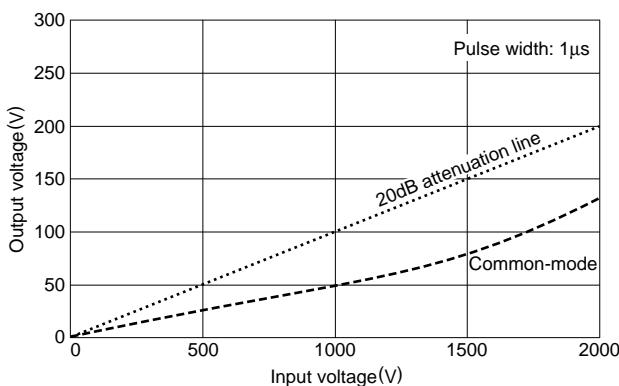
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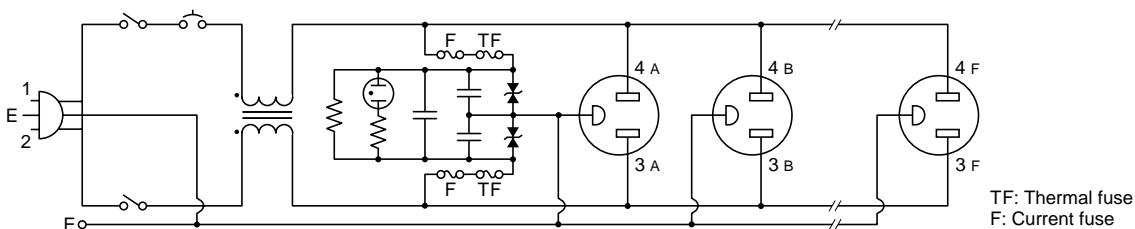
TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS



PULSE ATTENUATION CHARACTERISTICS



CIRCUIT DIAGRAM



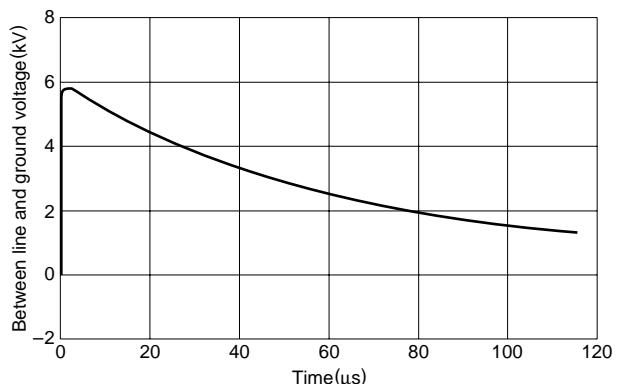
CAUTIONS

- Use at below an output of total 1450W (100V, 14.5A).
- Do not insert or remove the plug from the power supply socket with wet hands.
- When the monitor lamp is not lit, the surge element may be deteriorated. Please send to the store where purchased, or send to your TDK dealer, and the part will be replaced for a charge.

TRANSIENT VOLTAGE SUPPRESSION CHARACTERISTICS

Common-mode

WITHOUT TNS-115S (1.2/50μs in pulse)



SUPPRESSION EFFECTS BY TNS-115S

