

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.

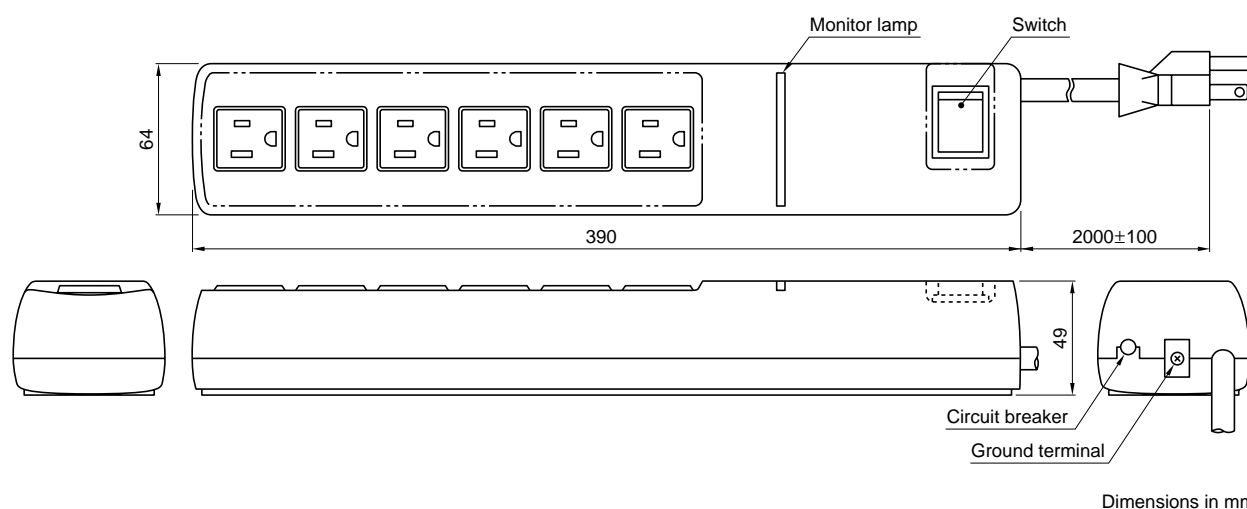
SAFETY STANDARD

Part No.	Approved model No.
TNS-115S	▽41-26543

APPLICATIONS

Office automation equipment, A/V devices, ISDN terminal equipment, computer peripheral components, digital application devices, various measurement devices, and other electronic equipment.

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]	100min.
	[DC. 100V, 1min/between terminal No.1 to 2]	0.1min.
Leakage current(mA)	[AC. 125V • 60Hz]	0.5max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 25dB	0.5 to 3
	Common-mode at 25dB	0.5 to 1.5
Pulse attenuation characteristics		
input pulse voltage (kV)	Common-mode at 20dB	2
[Input pulse width: 1μs]		
Transient suppression voltage(V)	[Between line to line, 1.2/50μs 6kV surge applied]	2000max.
	[Between line to G, by UL1449, 24 *1]	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

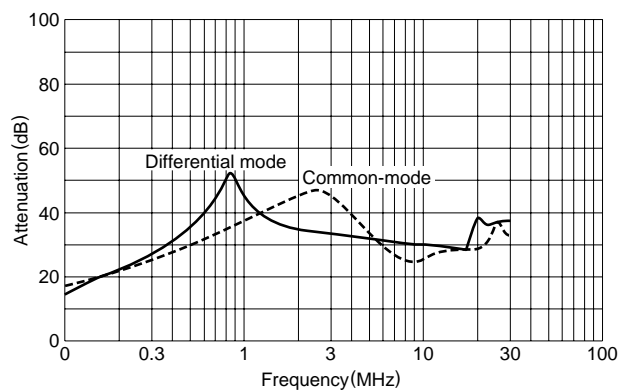
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TYPICAL ELECTRICAL CHARACTERISTICS

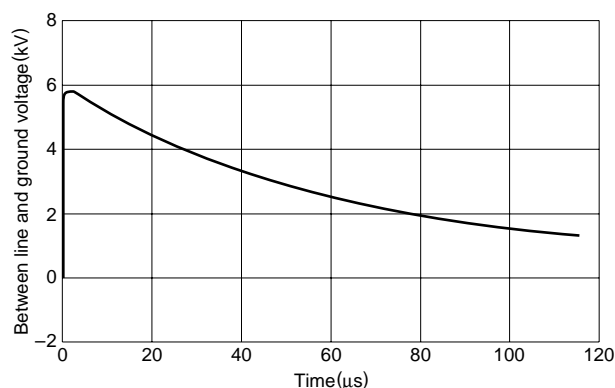
ATTENUATION vs. FREQUENCY CHARACTERISTICS



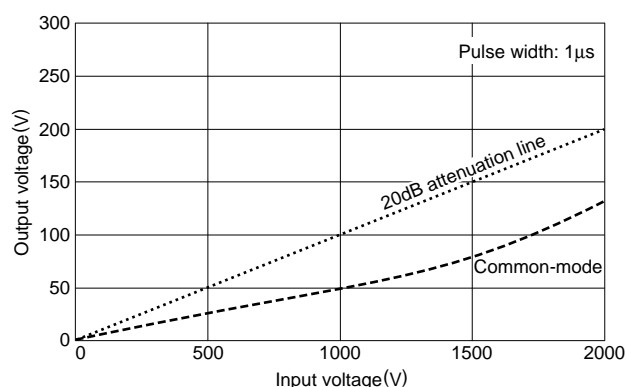
TRANSIENT VOLTAGE SUPPRESSION CHARACTERISTICS

Common-mode

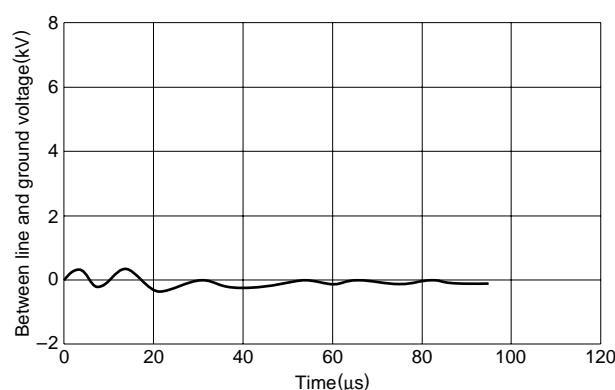
WITHOUT TNS-115S (1.2/50μs in pulse)



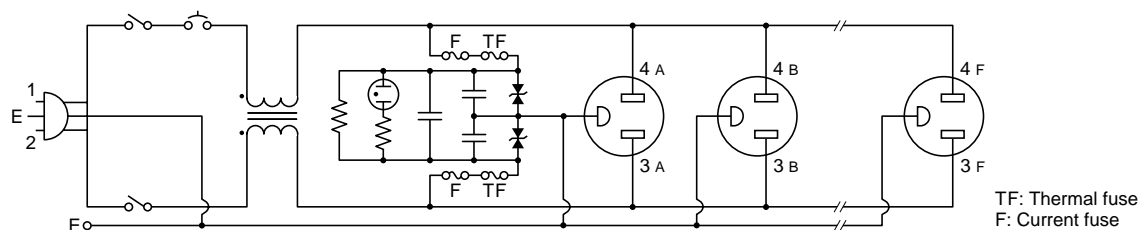
PULSE ATTENUATION CHARACTERISTICS



SUPPRESSION EFFECTS BY TNS-115S



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.

