

A.C. MINI SLIMLINE FILTERS

536-623
+ 635
+ 647

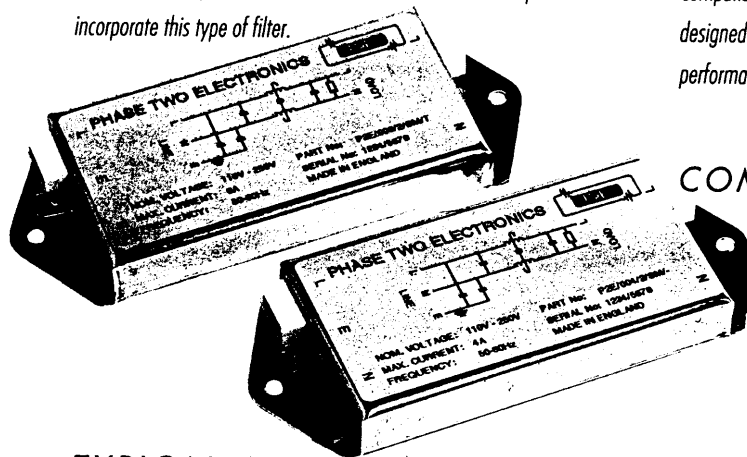
CURRENT RATINGS:

1, 2, 4, 6, 10, AMPS

OPERATING VOLTAGE:

240/110 VOLTS

The A.C. MINI SLIMLINE FILTER RANGE provide protection against the hazards of a high level of Radio Frequency Interference (R.F.I.) and mains borne transients. They have been designed to specifically satisfy the needs of O.E.M.'s who have limited space to incorporate this type of filter.



REGULATIONS

Manufacturers of electrical/electronic products are recommended to comply with certain Radio Frequency Interference (R.F.I.) regulations in the recently issued E.E.C. Harmonisation Programme. From the 1st January 1992 all electrical/electronic products made or sold in the United Kingdom must by law meet specific performance criteria with regard to Electromagnetic Compatibility (E.M.C.). This range of AC MINI SLIMLINE FILTERS is designed to help our customer comply and to give a compactness and performance superior to other suppliers.

COMMERCIAL ADVANTAGES

- INTEGRAL TRANSIENT PROTECTION OPTION.
- VERY HIGH R.F.I. PERFORMANCE FOR MINIMAL COST.
- INCREASED SYSTEM RELIABILITY & EFFICIENCY.
- EQUIPMENT/SYSTEM DOWNTIME REDUCED.

TYPICAL APPLICATIONS

- AC/DC converters.
- Linear P.S.U.'S.
- Motors.
- Computers.
- Electronic Scales.
- Telecom Equipment.
- Switch Mode P.S.U.'s.
- Motor Speed Controllers.
- Measuring Equipment.
- Retro Fit Situations

Primarily any electrical/electronic equipment which utilises a modular power supply.

STANDARDS

Phase Two Electronics' filters are designed in accordance with the latest requirements regarding Health and Safety, particularly EN 60950 creepage and clearance and BS 6204 earth leakage current criteria. The performance characteristics of the AC MINI SLIMLINE RANGE are specifically designed to assist equipment meet the relevant standards for Emissions EN55022, EN50081.

TECHNICAL ADVANTAGES

■ SATURATION.

The AC MINI SLIMLINE FILTERS have the same effective performance up to THREE TIMES the rated RMS current. It is only beyond this point saturation may occur.

■ OUTPUT RINGING.

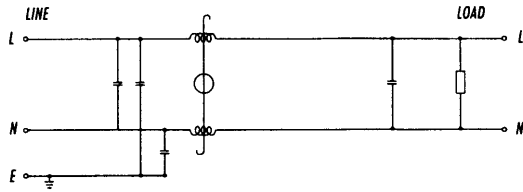
By utilising circuitry with enhanced damping characteristics extended output "ringing" is minimised and thus the probability of damage to sensitive equipment by secondary and tertiary transients is significantly reduced.

■ PHYSICAL DIMENSIONS.

The chassis mount AC MINI SLIMLINE FILTERS are much more compact than other filters of similar capability. The 80mm by 43mm envelope is remarkably enhanced by the 14mm thickness, thus allowing maximum performance in the minimum space.

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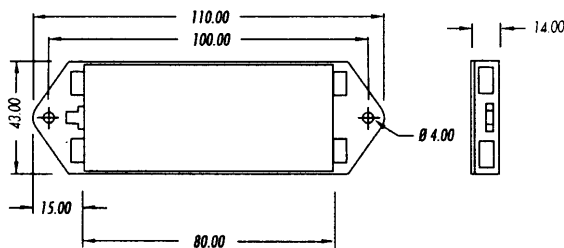
CIRCUIT (BASIC)



SPECIFICATION

Current ratings	1, 2, 4, 6, 10 amps
Operating Voltage	90V-135V AC 50/60 Hz 240V-265V AC 50/60 Hz
Operating Temperature	-10°C to +40°C
Core Saturation	Three Times Rated RMS
Case	Steel
Finish	Copper Plate Nickel Flash
Rise Time Reduction	5:1
Volt Drop	< 750mV
Earth Leakage Current	< 0.9mA
Connector Type	6.3 x 0.8 'Fast On'
	P.C.B. Mount or other connector types available upon request

DIMENSIONS



ORDERING CODES

P2E/★/★/2/SM/★

AMP RATING (001 = 1A, 010 = 10A ETC)

TRANSIENT PROTECTION:

-- = NONE, T = NORMAL, H = HIGH

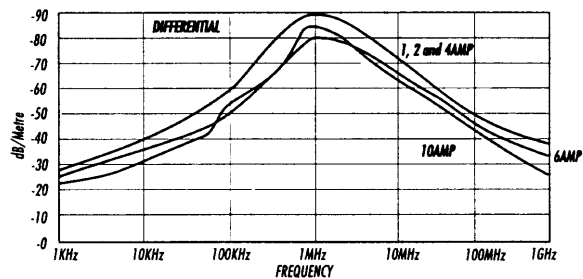
E.G. P2E/006/2/SM/H

TECHNICAL INFORMATION

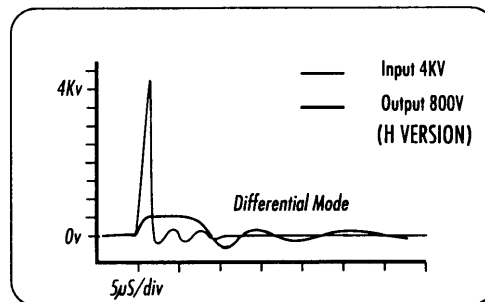
These high specification filters incorporate the latest R.F.I. technology. The design criteria ensures that high amplitude, high frequency transients are dramatically reduced and rapidly integrated, thus allowing the power supply control circuit to view the modified transient and reduce it to zero. The sensitive electronic equipment thus receives maximum protection against high speed conductive noise.

PERFORMANCE CHARACTERISTICS

INSERTION LOSS CURVES



TRANSIENT RESPONSE



In addition to the standard range of filters, Phase Two Electronics specialise in the design and manufacture of filters to suit your specific design requirements.

Due to continuous development Phase Two Electronics reserve the right to amend any information contained within this data sheet without prior notice.

