

Laser Range Filters

Current Ratings: 8,16,25,36,50,80 AMPS.

Operating Voltage: Single Phase - 230V A.C. Two Phase & Three Phase - 520 A.C.



Laser range as its name implies has been specially designed to overcome the inherent conducted EMC signatures given by laser power supplies. Laser power supplies demand high current pulses which tend to saturate standard filter units. This range has high attenuation factors at the lower frequency range where the power supplies require effective filtering. This is combined with a high saturation level so that this effective filtering is still given when the high current pulses occur. Medical versions are also available, offering similar performance with only 200mA Earth leakage.

This series have multiple stages housed in a compact chassis mounting enclosure with the internal components either encapsulated or mechanically fixed to give a shock and vibration proof unit.

D versions have extended performance for high frequency damping to ensure compliance when Earth loops and ringing is present.

GENERAL OVERVIEW

TYPICAL APPLICATIONS

- Laser power supplies
- High current power supplies
- IGBT driven power supplies
- Uninterruptable power supplies

TECHNICAL ADVANTAGES

- Compact Dimensions
- High attenuation characteristics
- Low earth leakage available
- Damped high frequency
- High saturation levels

COMMERCIAL ADVANTAGES

- Assists compliance with the EMC directive
- State of the art technology ensures superior performance
- Competitively priced
- Micro size
- Reduced weight
- Cost effective component

REGULATIONS

From the 1st of January 1996 all electrical/electronic apparatus - with few exceptions - sold or taken into service within the European Community must comply with the essential requirements of the EMC directive 89/336/EEC. Failure to do so is a criminal offence in the U.K.

STANDARDS

The laser range of filters are built in accordance with the relevant BS, VDE, UL, CE & CSA safety standards. All EMC Solutions filters & power supplies are designed to meet the latest requirements for Health and Safety, Particularly EN 133200. The Laser range is was specifically designed to assist laser power supplies to European Emission standards and medical standards. eg. EN55011, EN55014, EN55022, EN50081-2 and EN50081-1.



DWG: 105A0160

Unit 6, Century Park, Starley Way, Bickenhill, Solihull, West Midlands B37 7HF (UK)

Tel (Main): +44 (0)121 782 2705

Tel (Sales): +44 (0)121 782 3122

Fax: +44 (0)121 782 2706

Email: Enquiry@emcsolutionsltd.com

WWW.EMCSOLUTIONSLTD.COM

TECHNICAL DATA

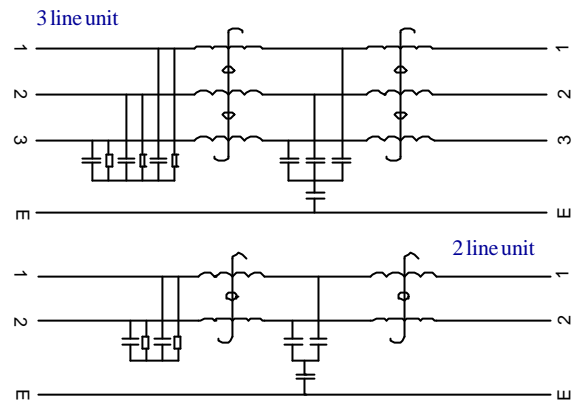
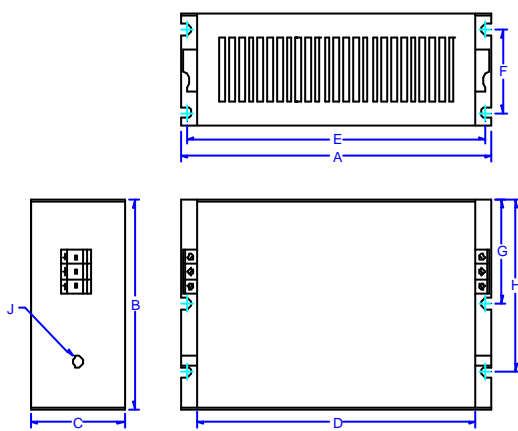
TECHNICAL SPECIFICATIONS

Current (Amps)	No of Lines	Operating Voltage @ 50/60Hz	Max AC Volt Drop @ Full Load	Earth Leakage mA	Medical Earth Leakage μ A	Inductance Per Line (Typical) mH	Transient Energy Absorption (Typical)	Storage Temp Range	Temperature Rise @ Full Load	Termination Type	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Dimensions J
8	23	230V - 520V	<1V/line	3	200	8	75 Optional	-25 to +85 °C	<40C	Insulated Screw Terminal (Phoenix Contact)	170	80	50	160	160	36	50	70	M6 x 20mm
16											170	80	50	160	160	36	50	70	M6 x 20mm
25											230	130	70	200	215	50	60	105	M6 x 20mm
36											230	130	70	200	215	50	60	105	M6 x 20mm
50											300	200	100	260	276	80	20	180	M6 x 20mm
80											300	200	100	260	276	80	20	180	M6 x 20mm

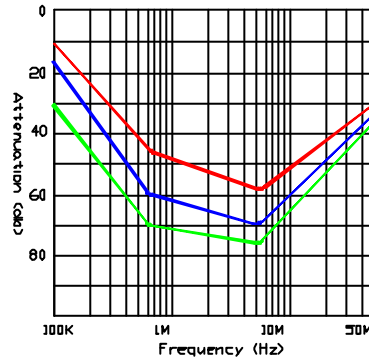
Fasteners supplied with earth stud

DIMENSIONS & ELECTRICAL SCHEMATIC

All dimensions in mm



PERFORMANCE CHARACTERISTICS INSERTION LOSS CURVES



8-16A 25-36A 50-80A

ORDERING INFORMATION

LASR/***/*/2/*

AMP RATING _____

NO OF LINES (2,3,4) _____

NO OF STAGES _____

OPTIONS (Listed below) _____

OPTIONS: T = Transient, M = Medical, - = No Options Required
e.g. LASR/016/3/2/- (This is a 16A 3 Line two stage unit with no options).

In addition to the standard range of filters & power supplies, EMC Solutions Ltd specialise in the design and manufacture of filters to suit your specific requirements.

Due to continuous development EMC Solutions Ltd reserve the right to amend any information contained within this datasheet without prior notice.

© 09/2002 EMC Solutions Ltd. E & OE

The contents of the datasheet must not be copied by any means without prior written agreement.



Unit 6, Century Park, Starley Way, Bickenhill, Solihull, West Midlands B37 7HF (UK)

Tel (Main): +44 (0)121 782 2705

Tel (Sales): +44 (0)121 782 3122

Fax: +44 (0)121 782 2706

Email: Enquiry@emcsolutionsltd.com

WWW.EMCSOLUTIONSLTD.COM