

PRODUCT DATA SHEET

DS31757CV

DESCRIPTION

A surge protected EMI low-pass filter for use on Gigabit Ethernet over copper wiring when optical fibre is not an option.

FEATURES

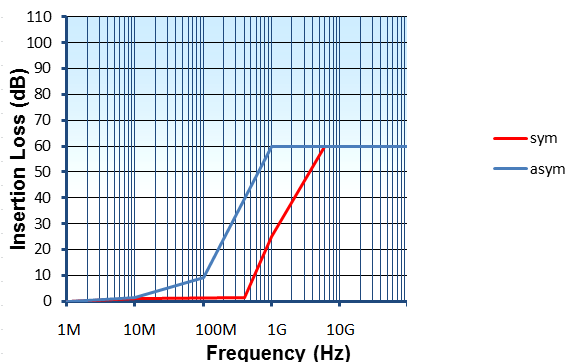
- For use on 10/100/1000BASE-T twisted pair cabling Cat-5, Cat-5e and Cat-6 upto 100 meters
- Matched common mode chokes for rejection of differential noise improving signal symmetry
- Utilises an ultralow capacitive surge arrestor with fast response time
- Bulkhead mountable for EMC chambers and enclosures with connection via RJ45 sockets

For further protection of cross and near end talk use shielded cable STP or S/STP if possible.

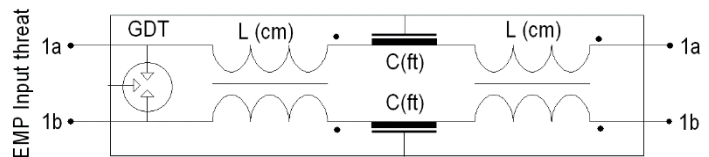
ELECTRICAL SPECIFICATION

No of lines	8-Lines (4 differential pairs)
Voltage Rating	28VAC/DC
Current Rating	1A @ 50°C
Insulation resistance	10Meg Ω @ 50V
DC resistance	<150m Ω input to output

TYPICAL PERFORMANCE IN 68 Ω



CIRCUIT PER TWISTED PAIR



PULSE PROTECTION

Pulse 8/20 μ S 2.5kA

Let-through in 50 Ω < 10A

SURGE ARRESTOR SPECIFICATION

DC Spark Over
 Impulse Voltage
 Service Life

90VDC
 350V @ 100V/ μ S
 10 x 50Hz 10A, 10 x 8/20 μ S 10kA

MECHANICAL SPECIFICATION

Enclosure
 Dimensions
 Weight:
 Input/Output Connection

Mild steel tin plated
 See attached drawing P831246
 1.5kg (Approximate)
 RJ45 socket

ENVIRONMENTAL SPECIFICATION

Temperature Range
 Enclosure Rating
 Flamability Rating

-25°C to +50°C
 Internally IP66
 UL 94V-0

DS31757CV

EMP/EMI ETHERNET FILTER

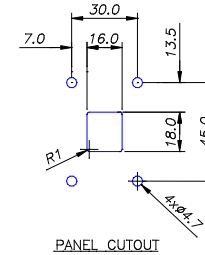
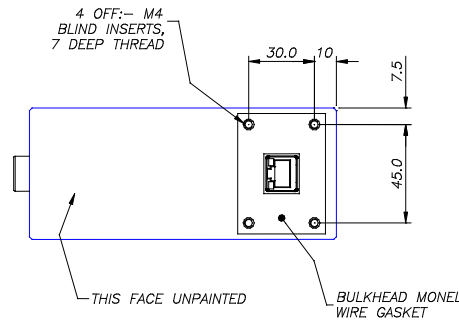
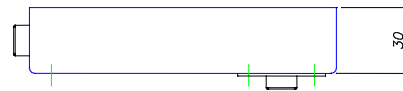
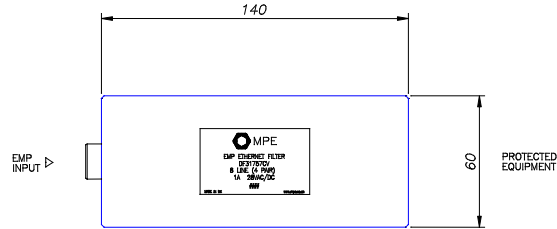
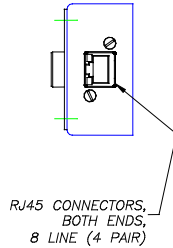


DRG. NO:-- P831246

ART.NO:-- ---

REMOVE ALL BURRS & SHARP EDGES.

ISS	CN.NO.	DATE
1	12268	4-9-15
2	12592	28-10-16
3	13424	2-11-18



IF IN DOUBT, ASK: DO NOT SCALE !

MPE Proprietary Information

MPE Ltd, HAMMOND ROAD,
KNOWSLEY INDUSTRIAL
PARK, LIVERPOOL.
L33 7UL.

TITLE:--
FILTER OUTLINE: DF31757CV, EMP ETHERNET, 4 PAIR, 1A, 28VAC/DC.

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN MM

TOLERANCES:--
UNLESS OTHERWISE SPECIFIED
TOLERANCES TO BE:--

>75 ± 1
≤75 ± 0.5
ONE DECIMAL PLACE ± 0.25
MORE THAN ONE DECIMAL PLACE ± 0.15
ANGLES ± 30 SECS

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SHEET
SIZE:--
A3

DRAWN:-- D.Glazebrook
DATE:-- 4-9-15
APPROVED:-- D.Rimmer
SCALE:-- 1:2
USED ON:-- 31757

MATERIAL:--
Electroplated steel.
FINISH:--
Light grey paint.

DRG. NO:-- P831246