

## SAFETY ORGANIZATIONS

THIS FILTER HAS BEEN FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS HAVE BEEN MET:

UL RECOGNIZED: UL 1283  
CSA CERTIFIED: CSA C22.2 No. 8 PENDING  
VDE APPROVED: EN 60939-2 PENDING

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 20 AMP, 120/250 VAC,  
16 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND:

2 $\mu$ AMP	@ 120V 60Hz
5 $\mu$ AMP	@ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE:  $-10^{\circ}\text{C}$  TO  $+40^{\circ}\text{C}$  @ RATED CURRENT,  $I_F$ .

IN AN AMBIENT,  $T_a$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_a$ , IS AS FOLLOWS:  $I_a = I_{a(40)} \sqrt{85 - T_a}$

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

## RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES I<sub>F</sub> FOR  
8 SECONDS

TEST SPECIFICATIONS:

INDUCTANCE: 3.88 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: NA  $\mu\text{F} \pm 20\%$   
LINE TO LINE: 2.77  $\mu\text{F} \pm 20\%$   
DISCHARGE RESISTOR: .110 H  $\Omega$   
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000H  $\Omega$  (MIN.) @ 100VDC,  
100VAC AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 1500 VAC FOR 1 MINUTE  
LINE TO LINE: 1450 VDC FOR 1 MINUTE

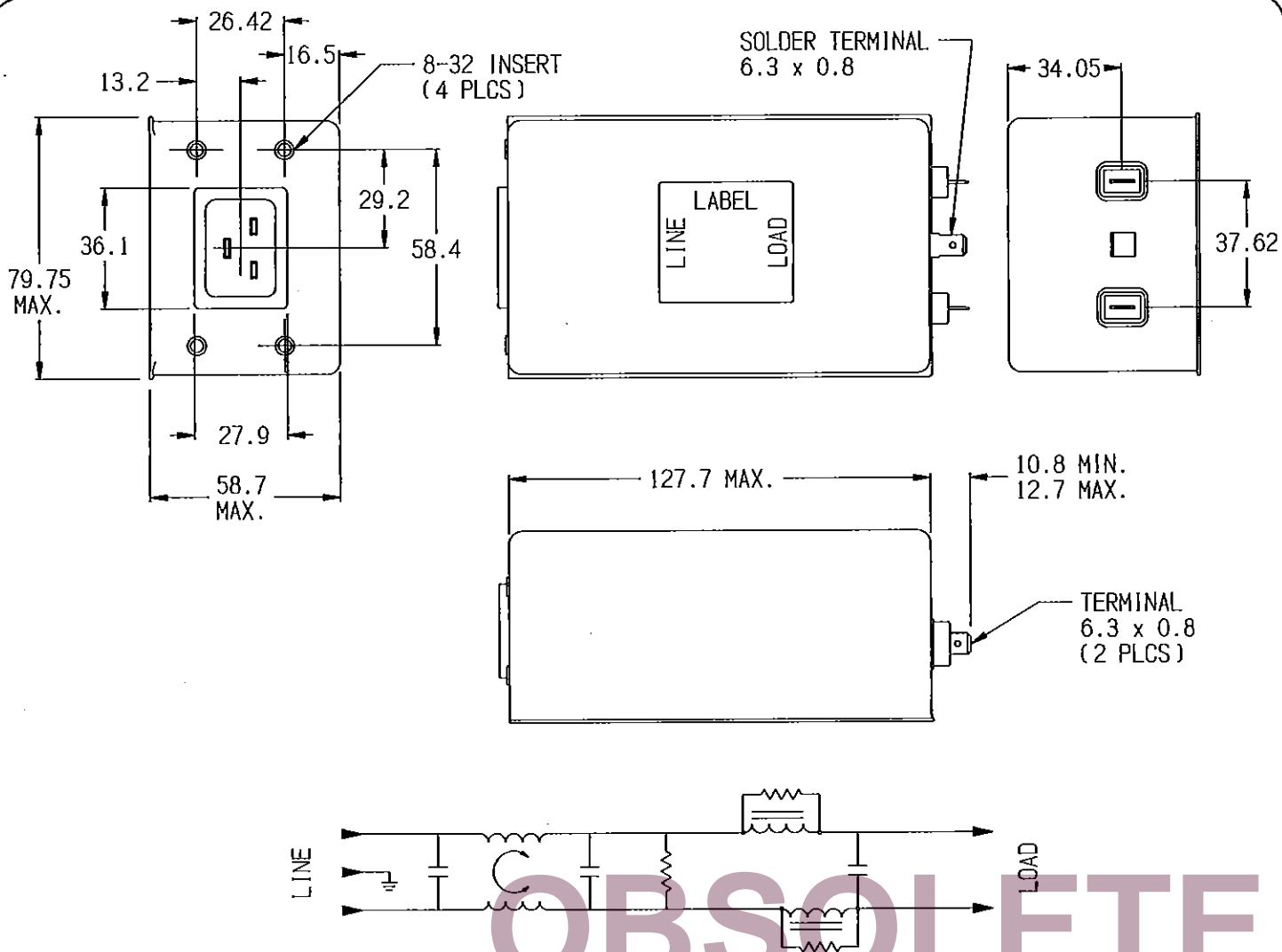
FILTER APPROVAL:

THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

## CUSTOMER DRAWING


CATALOG # 20EHT7

ECN#	APPRVD	DATE
13-007605	TAM	06MAY13




50 Ω - 50 Ω (MINIMUM) INSERTION LOSS												
FREQUENCY MHz	.01	.03	.05	.15	.5	1	2	5	10	20	30	/
COMMON dB	2	10	15	24	29	26	20	14	11	9	5	/
DIFF. dB	10	17	13	51	70	70	70	70	65	65	50	/

SHEET SIZE



THIRD ANGLE PROJECTION



THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO TYCO ELECTRONICS CORPORATION AND ITS WORLDWIDE SUBSIDIARIES AND AFFILIATES. IT MAY NOT BE DISCLOSED TO ANYONE OTHER THAN TYCO ELECTRONICS PERSONNEL, WITHOUT WRITTEN AUTHORIZATION FROM TYCO ELECTRONICS CORPORATION.

(www.TE.com)

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED  
TOLERANCE TO BE  $\pm 0.64$   
MATERIAL & FINISH: AS SUPPLIED  
DIMENSIONS IN MILLIMETERS

### NOTES:

## POWER LINE FILTER

TE PART NO.: 3-1609037-6

SCALE: 1/2	DATE: 01MAY13	DRAWING NUMBER: 20EHT7	REV. A
DRW. BY: TAM	CRG: TAM		

20ENT7-A.ckd

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[20EHT7](#)