

## 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 22.2, # 8  
VDE APPROVED: VDE 565-3

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 3 AMP, 120/250 VAC,  
3 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,

EACH LINE TO GROUND: 0.22 mA @ 120V 60Hz  
0.38 mA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT,  $I_r$ .

IN AN AMBIENT,  $T_0$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_0$ , IS AS FOLLOWS:

$$I_0 = I_r \sqrt{\frac{100 - T_0}{60}}$$

## RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES  $I_r$  FOR  
8 SECONDS

## TEST SPECIFICATIONS:

INDUCTANCE: 1.45 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.0058  $\mu$ F ±20%  
LINE TO LINE: 0.0485  $\mu$ F ±20%  
DISCHARGE RESISTOR: 1.5M  $\Omega$   
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000M $\Omega$  (MIN.) @ 100VDC,  
20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

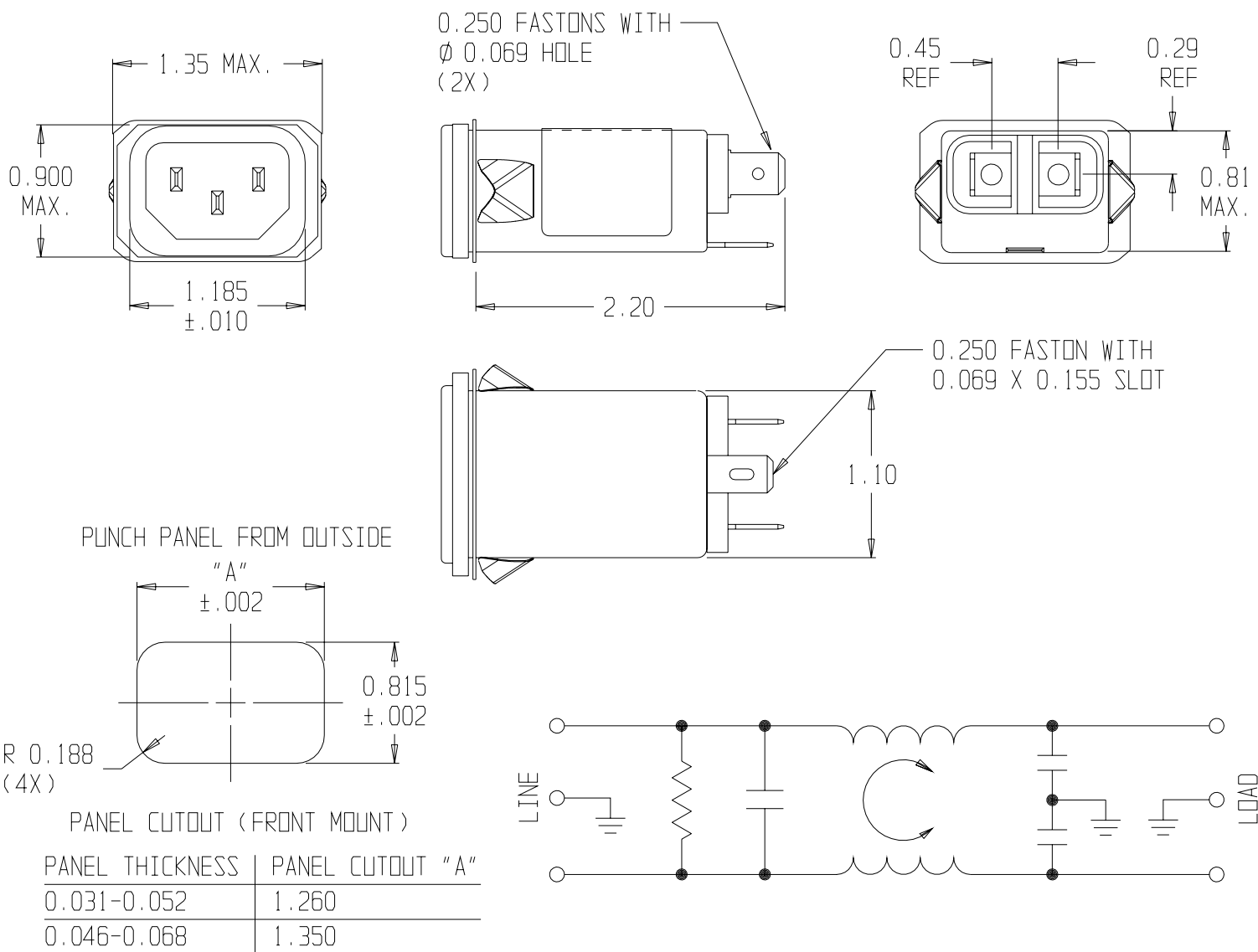
LINE TO GROUND: 1500 VAC OR 2250 VDC FOR 1 MINUTE  
LINE TO LINE: 1450 VDC FOR 1 MINUTE

## FILTER APPROVAL:

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

## CATALOG # 3EBS1

ECN #	APPRD.	DATE
0123		10-15-02



## 50 $\Omega$ - 50 $\Omega$ (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.05	0.1	.15	0.5	1	3	5	10	30
COMMON dB	0	10	15	19	30	36	-	48	50	47
DIFF. dB	1	2	11	14	25	38	-	44	40	

THIRD ANGLE  
PROJECTION



UNLESS OTHERWISE SPECIFIED,  
TOLERANCE TO BE ±.025  
MATERIAL & FINISH: AS SUPPLIED

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## POWER LINE FILTER

CAD FILE: G:\CD\3EBS101	TYCD # 0-1609005-2
SCALE: NTS	DATE: 8-10-02
DRW. BY: SD	DRIG: ELC
CATALOG NO. 3EBS1	REV. 1

# Mouser Electronics

Authorized Distributor

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