

# CUSTOMER DRAWING

CATALOG # 20ERK1

EC #	APPRVD.	DATE
08-031152	PJO	12DEC08

## 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, # 0,0.4,8  
VDE APPROVED: EN 60939-2

## OPERATING SPECIFICATIONS

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

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND:

0.16 mA @ 120V 60Hz
0.28 mA @ 250V 50Hz

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

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

$$I_o = I_r \sqrt{\frac{100 - T_a}{60}}$$

## 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:

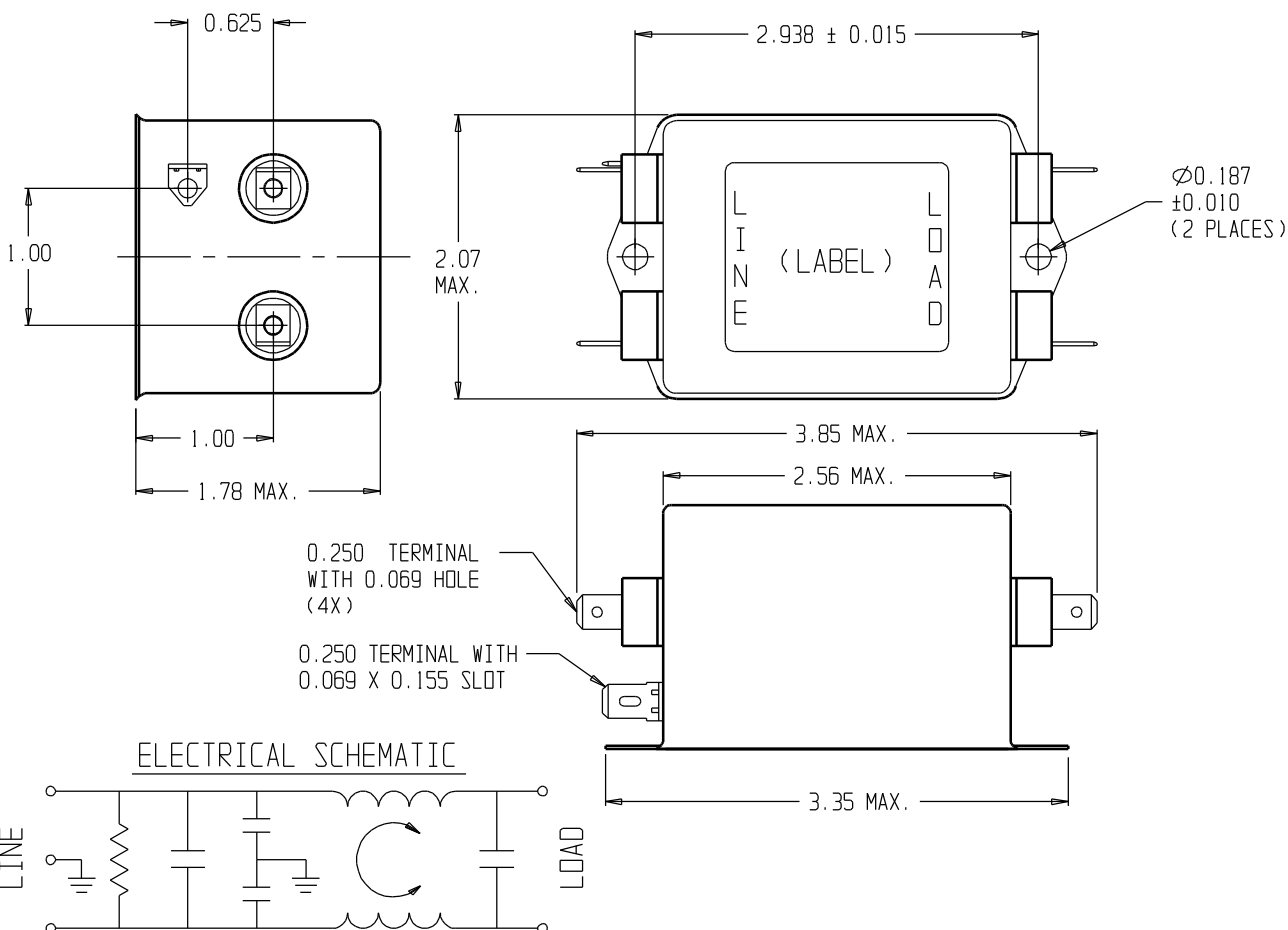
INDUCTANCE: 4.55 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.0044 µF ±20%  
LINE TO LINE: 0.741 µF ±20%  
DISCHARGE RESISTOR: 470K Ω  
L/G AND L/L I.R.: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 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.



SHALL COMPLY WITH TYCO ELECTRONICS 230-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

50Ω- 50Ω(MINIMUM) INSERTION LOSS											THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED, TOLERANCE TO BE ±.025 MATERIAL & FINISH: AS SUPPLIED	TYCO ELECTRONICS PART NO. 2-1609089-7	SCALE: NTS	DATE: 01FEB06	CATALOG NO. 20ERK1	REV. 4
FREQUENCY MHz	.05	.10	.15	.50	1.0	2.0	5.0	10	20	30							
COMMON dB	19	25	29	34	36	38	40	41	43	52							
DIFF. dB	16	19	16	54	74	90	74	67	61	54							

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**POWER LINE FILTER**