

## 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 (TRACEABLE TO F4342)  
CSA CERTIFIED: CSA 22.2, # 0.0.4.8 (TRACEABLE TO F4342)  
VDE APPROVED: EN 133 200 (TRACEABLE TO F4342)

## 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,  $T_o$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_o$ , IS AS FOLLOWS:

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

## 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  $\mu$ F ±20%  
LINE TO LINE: 0.741  $\mu$ F ±20%  
DISCHARGE RESISTOR: 1.0M  $\Omega$   
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: 2250 VDC FOR 1 MINUTE  
LINE TO LINE: 1450 VDC FOR 1 MINUTE

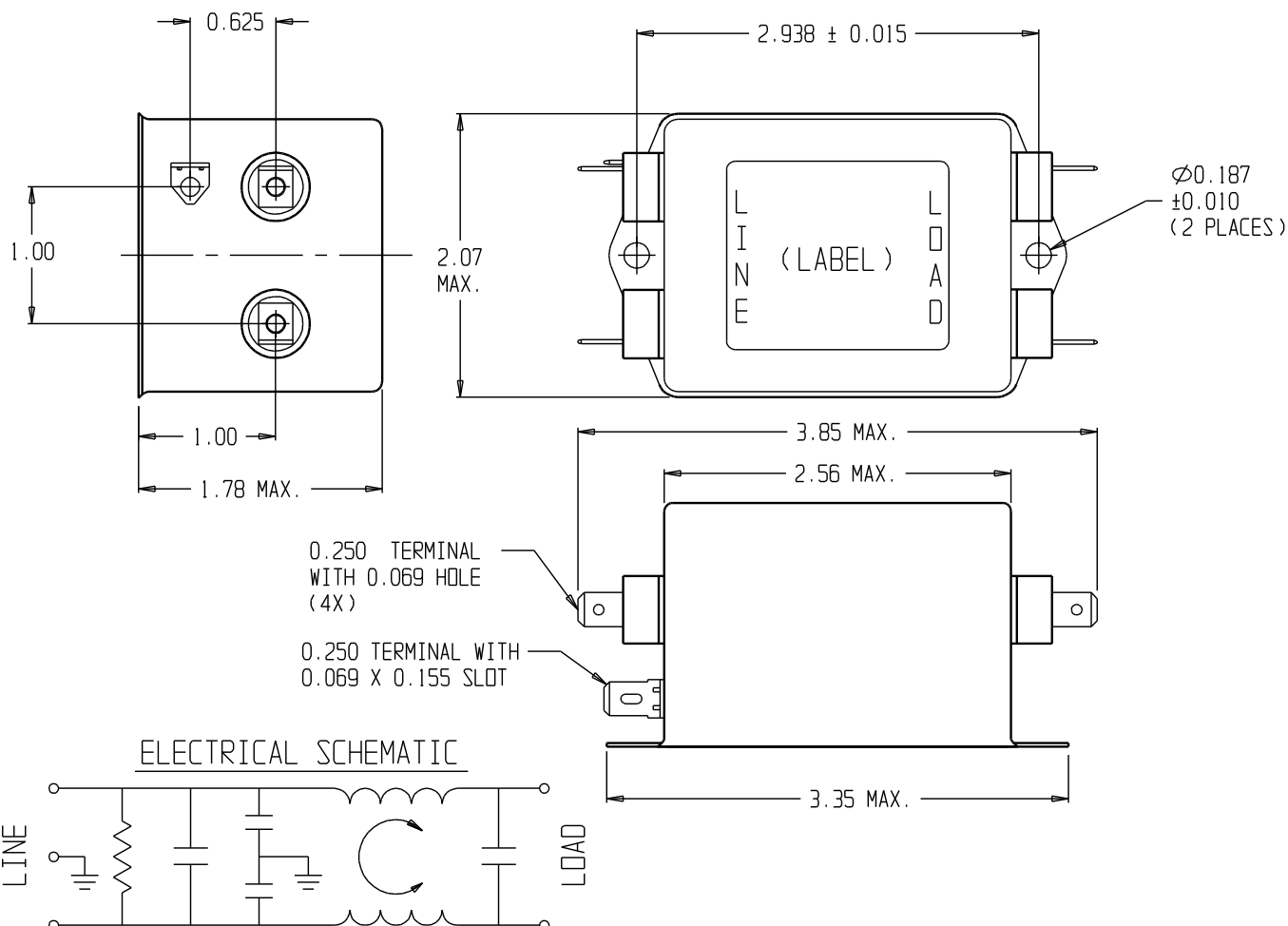
## FILTER APPROVAL:

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

## CUSTOMER DRAWING

### CATALOG # 20ERK1

EC #	APPRVD.	DATE
07-027019	PJD	14NOV07
07-027915	PJD	26NOV07



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

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

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

THIRD ANGLE  
PROJECTION



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

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HARRISBURG, PENNSYLVANIA USA



**Tyco Electronics**

CORCON PRODUCTS, 620 S. BUTTERFIELD RD. MUNDELEIN IL 60060

## POWER LINE FILTER

TYCO ELECTRONICS PART NO.		2-1609089-7	
SCALE:	DATE:	CATALOG NO.	REV.
NTS	01FEB06	20ERK1	2
DRW. BY:	DRG:		
JF	PJD		