

### 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  
 VDE APPROVED: EN 60939-2

### OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 10 AMP/40°C 120/250 VAC, 50-60Hz  
 10 AMP/40°C, 250 VAC, 50-60Hz  
 10 AMP/40°C, 250 VDC

MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND:  
 0.22mA @ 120V 60Hz  
 0.36mA @ 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:  

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

### RELIABILITY SPECIFICATIONS:

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

### TEST SPECIFICATIONS:

INDUCTANCE: 1.1 mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.0056  $\mu$ F±20%  
 LINE TO LINE: 1.0014  $\mu$ F±20%  
 DISCHARGE RESISTOR: 330K  $\Omega$   
 L/C 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 FOR 1 MINUTE  
 LINE TO LINE: 1450 VDC FOR 1 MINUTE

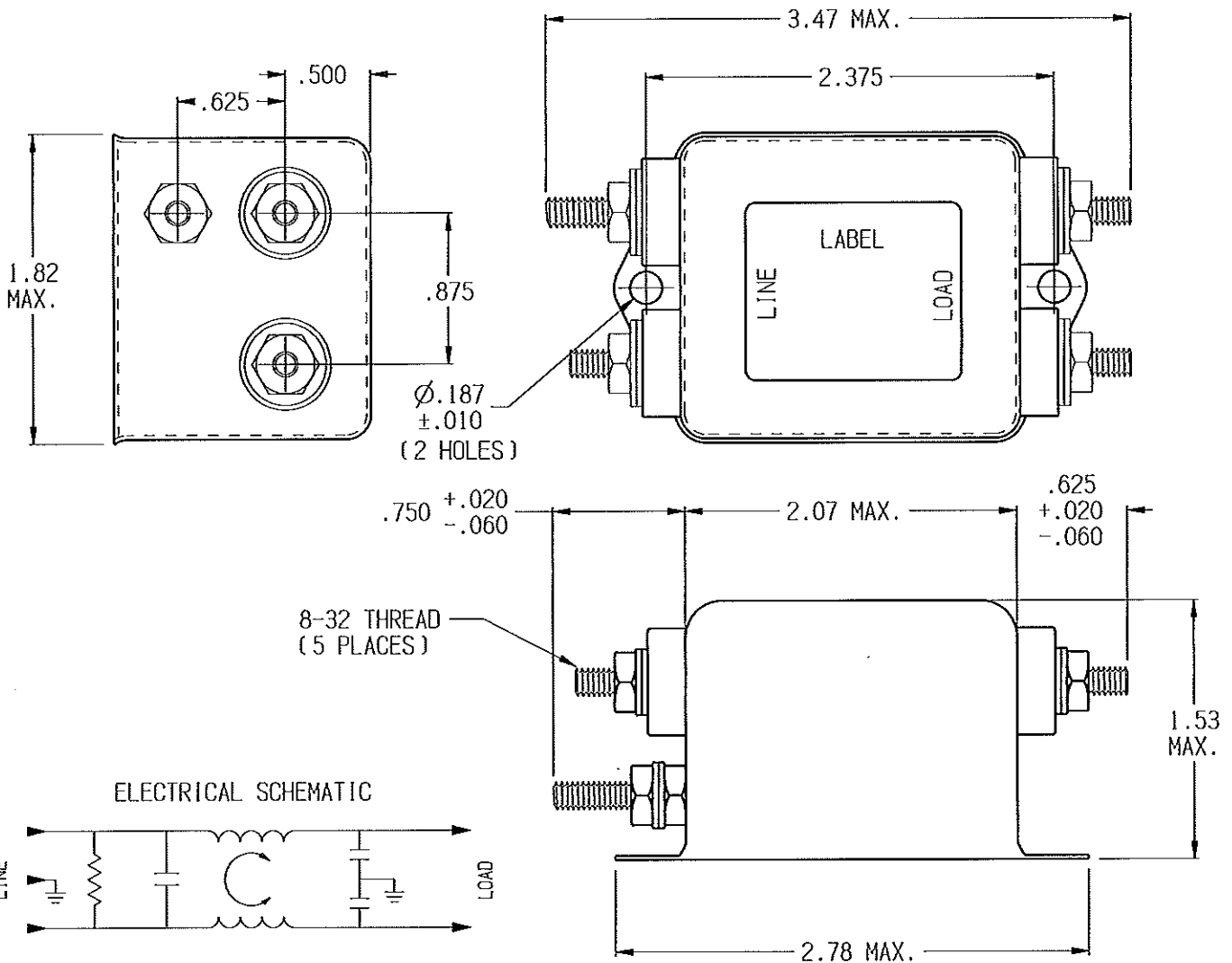
### FILTER APPROVAL:

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

### CUSTOMER DRAWING

CATALOG # 10ESB6

ECN#	APPRVD	DATE
10-006843	PJO	07APR10



50 $\Omega$ - 50 $\Omega$ (MINIMUM) INSERTION LOSS											
FREQUENCY MHz	.01	.03	.05	.1	.15	.5	1.0	2.0	5.0	10.0	30.0
COMMON dB	-	3	9	14	18	31	39	41	44	47	54
DIFF. dB	5	14	20	25	29	41	47	48	50	60	64

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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES  
 UNLESS OTHERWISE SPECIFIED  
 TOLERANCE TO BE  $\pm 0.025$   
 MATERIAL & FINISH: AS SUPPLIED

NOTES:

**Tyco Electronics**  
 CORCON PRODUCTS, 620 S. BUTTERFIELD RD. HANDELIN IL 60060

**POWER LINE FILTER**

TYCO ELECTRONICS PART NO. 1-1609034-4

SCALE: 1:1	DATE: 23MAY09	DRIVING NUMBER: 10ESB6	REV. A
DRW. BY: LJO	DRG: PJO		

10esb6-a.ctd