

## 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  
TUV APPROVED: EN60950

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 30 AMP/55°C, 80 VDC

LINE FREQUENCY: DC

MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND: N/A mA @ 120V 60Hz  
N/A 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,  $I_o$ , IS AS FOLLOWS:  $I_o = I_r \sqrt{\frac{85 - T_0}{45}}$

## 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

CATALOG #30DCB10F

EC# APPRVD. DDMMMYY

0631-0093-03 11MAR03

## TEST SPECIFICATIONS:

INDUCTANCE: 0.690mH NOMINAL

CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)

LINE TO GROUND: 0.099366μF ±20%

LINE TO LINE: 2.02515μF ±20%

DISCHARGE RESISTOR: 0.165MΩ

L/G AND L/L I.R.

NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC,  
20°C AND 50% RH

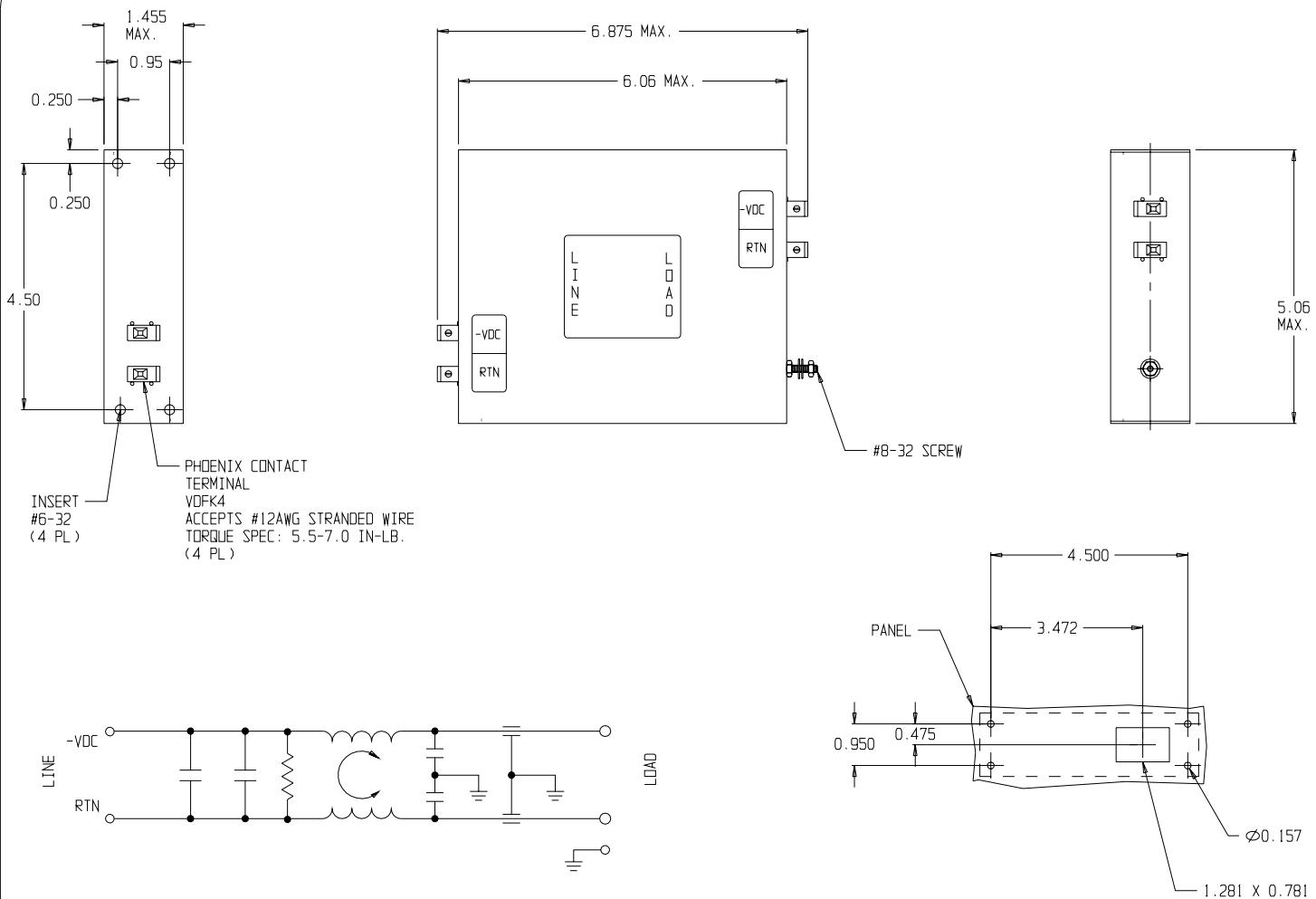
## RECOMMENDED RECEIVING INSPECTION HIPOT:

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.



## 50Ω - 50Ω (MINIMUM) INSERTION LOSS

| FREQUENCY MHz | .01 | .05 | 0.1 | .15 | 0.5 | 1  | 3  | 5  | 10 | 20 | 50 TO 300 |
|---------------|-----|-----|-----|-----|-----|----|----|----|----|----|-----------|
| COMMON dB     |     | 4   | 15  | 23  | 46  | 59 | 63 | 63 | 54 | 30 | 50        |
| DIFF. dB      | 7   | 22  | 28  | 31  | 32  | 59 | 56 | 51 | 41 | 28 |           |

THIRD ANGLE PROJECTION



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

This document is proprietary to CORCOM INC. and is not to be reproduced nor used for manufacturing purposes except on CORCOM's prior written consent.

**tyco** / Electronics  corcom  
844 E. ROCKLAND RD. LIBERTYVILLE IL 60048

## POWER LINE FILTER

|                            |                    |
|----------------------------|--------------------|
| CAD FILE: G:\CD\30DCB10F01 | TYCO # 4-1609074-6 |
| SCALE: NTS                 | DATE: 01-02-01     |
| DRW. BY: PJO               | DRIG: PJO          |

CATALOG NO. REV.  
30DCB10F 1