

## 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: 30 AMP, 120/250 VAC,  
25 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,

EACH LINE TO GROUND: 0.40 mA @ 120V 60Hz  
0.70 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:

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

## 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: 0.69 mH NOMINAL  
GROUND CHOKES: 0.378 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.011  $\mu$ F±20%  
LINE TO LINE: 0.943  $\mu$ F±20%  
DISCHARGE RESISTOR: 235K  $\Omega$   
L/G AND L/L I.R.:  
NO DISCHARGE RESISTOR: 600M $\Omega$  (MIN.) @ 100VDC,  
20°C AND 50% RH

## RECOMMENDED RECEIVING INSPECTION HIPOT:

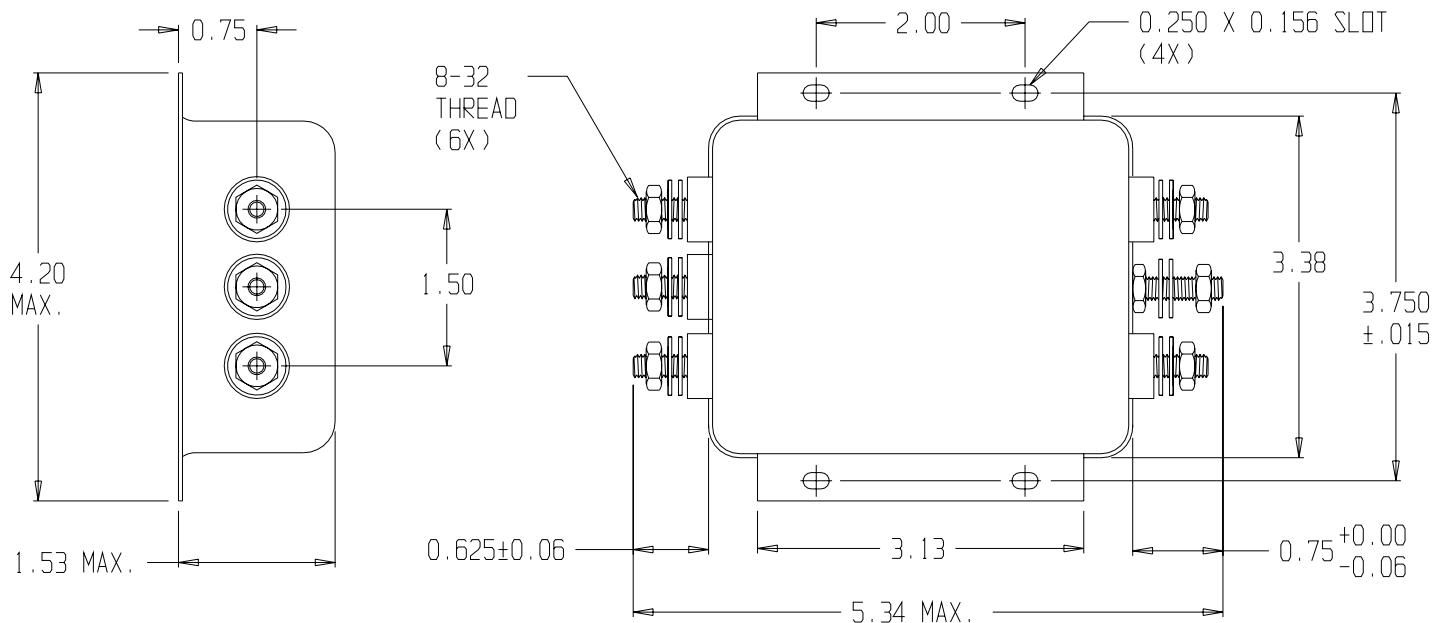
LINE TO GROUND: 1500VAC OR 2250VDC FOR 1 MINUTE  
LINE TO LINE: 1450VDC FOR 1 MINUTE

## FILTER APPROVAL:

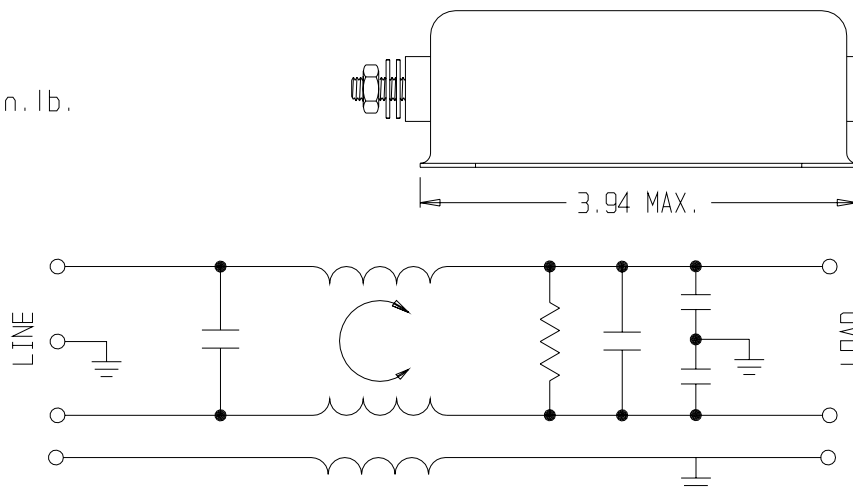
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

## CATALOG # 30VK6C

ECN #	APPRVD.	DATE



NOTE:  
TORQUE: 18 ± 2 in. lb.



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

FREQUENCY MHz	.15	.5	1	2	5	10	20	30						
COMMON dB	12	26	38	38	46	50	52	50						
DIFF. dB	2	40	60	65	65	57	57	57						

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\30VK6C00	DATE: 10/10/97	CATALOG NO. 30VK6C	A REV. 0
SCALE: NTS	DRW. BY: JF	DRIG: KAW	

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[30VK6C](#) [2-6609028-1](#)