

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 60939-3

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 3.0 AMP/90°C, 480 VAC 50-60Hz
3.0 AMP/90°C, 480 VDC

MAXIMUM LEAKAGE CURRENT,
EACH LINE TO GROUND: 0.28 mA @ 277V 60Hz
0.21 mA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -40°C TO +90°C @ RATED CURRENT, I_r .

IN AN AMBIENT, T_a , HIGHER THAN 90°C, THE MAXIMUM OPERATING CURRENT, I_o , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{100 - T_a}{10}}$$

RELIABILITY SPECIFICATIONS:

STORAGE TEMPERATURE: -40°C TO +100°C
HUMIDITY: 21 DAYS @ 40°C 95% RH.
CURRENT OVERLOAD TEST: 6 TIMES I_r FOR 8 SECONDS

TEST SPECIFICATIONS:

INDUCTANCE: 0.51 mH NOMINAL
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CAPACITANCE: (MEASURED @ 1 kHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.0044µF ± 20 %
LINE TO LINE: 0.011µF ± 20 %
DISCHARGE RESISTOR: 20 MEGOHM
L/G AND L/L I.R.
NO DISCHARGE RESISTOR: 6000MEGOHM (MIN.) 100VDC 20°C AND 50% RH

RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 2250 VDC FOR 1 MINUTE
LINE TO LINE: 2775 VDC FOR 1 MINUTE

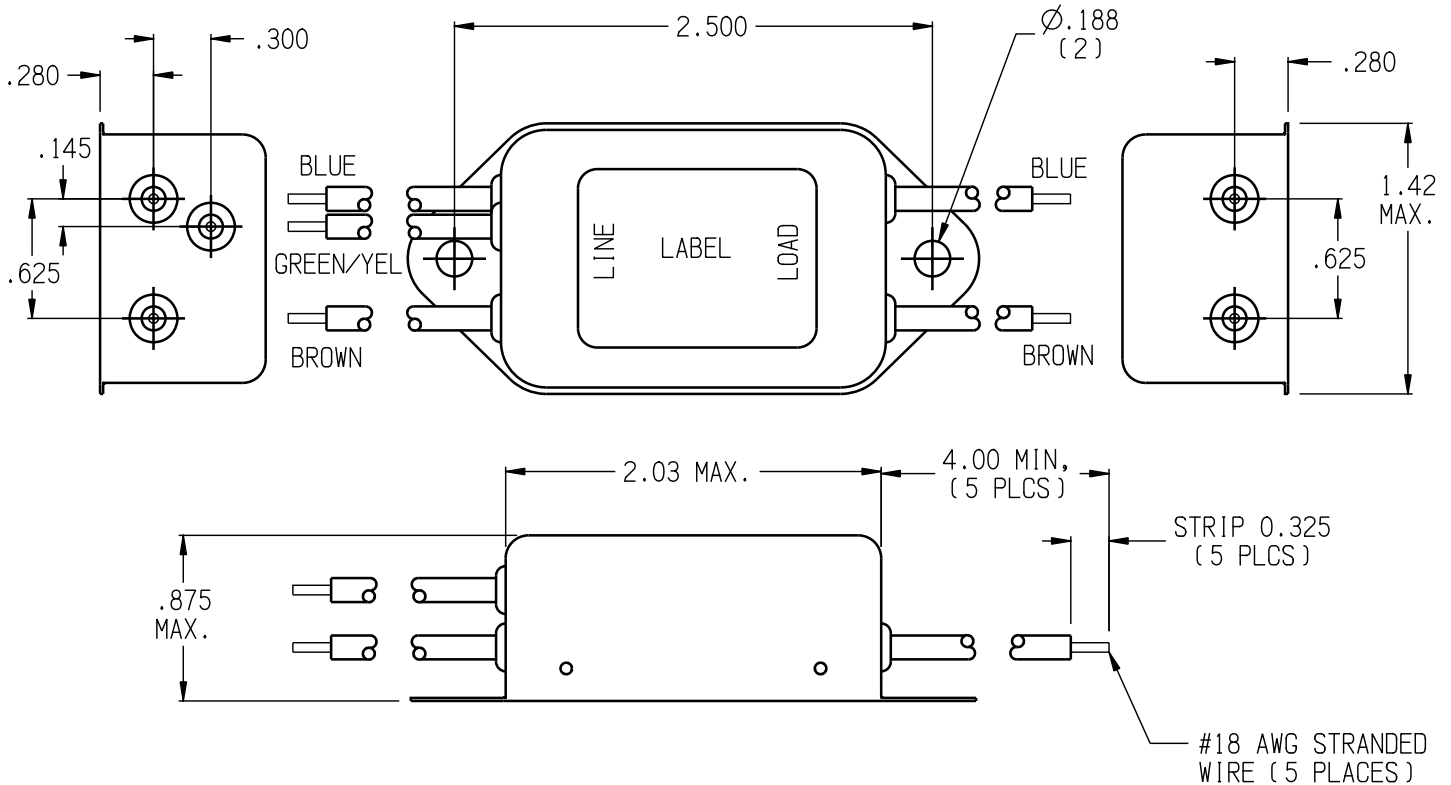
FILTER APPROVAL:

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

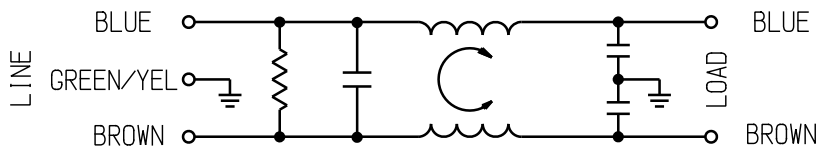
CUSTOMER DRAWING

CATALOG # 3FBH3

ECN# APPRVD DATE



ELECTRICAL SCHEMATIC



50Ω - 50Ω (TYPICAL) INSERTION LOSS

FREQUENCY MHz	.03	.05	.1	.15	.5	1.0	2.0	5.0	10	20	30	/
COMMON dB	3	6	11	15	21	24	28	35	40	48	61	/
DIFF. dB	0	0	0	1	5	10	15	18	53	60	78	/



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HARRISBURG, PENNSYLVANIA USA.

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED
TOLERANCE TO BE ±0.025
MATERIAL & FINISH: AS SUPPLIED

NOTES:

3FBH3-A.cxd

TE TE Connectivity

RFI FILTER

TYCO ELECTRONICS PART NO. 3-1609028-0

SCALE:	DATE:	DRAWING NUMBER:	REV.
1:1	29OCT19	3FBH3	A
DRW. BY:	ORIG:		
LJD	JB		

Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[3-1609028-0](#)