

CUSTOMER DRAWING

CATALOG # 3FB3-MS

FCN#	APPRVD	DATE

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
 CERTIFIED THROUGH UL: CSA C22.2, NO. 8

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 3 AMP, 120/277 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,
 EACH LINE TO GROUND:
 0.36mA @ 120V 60Hz
 0.83mA @ 277V 60Hz

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:

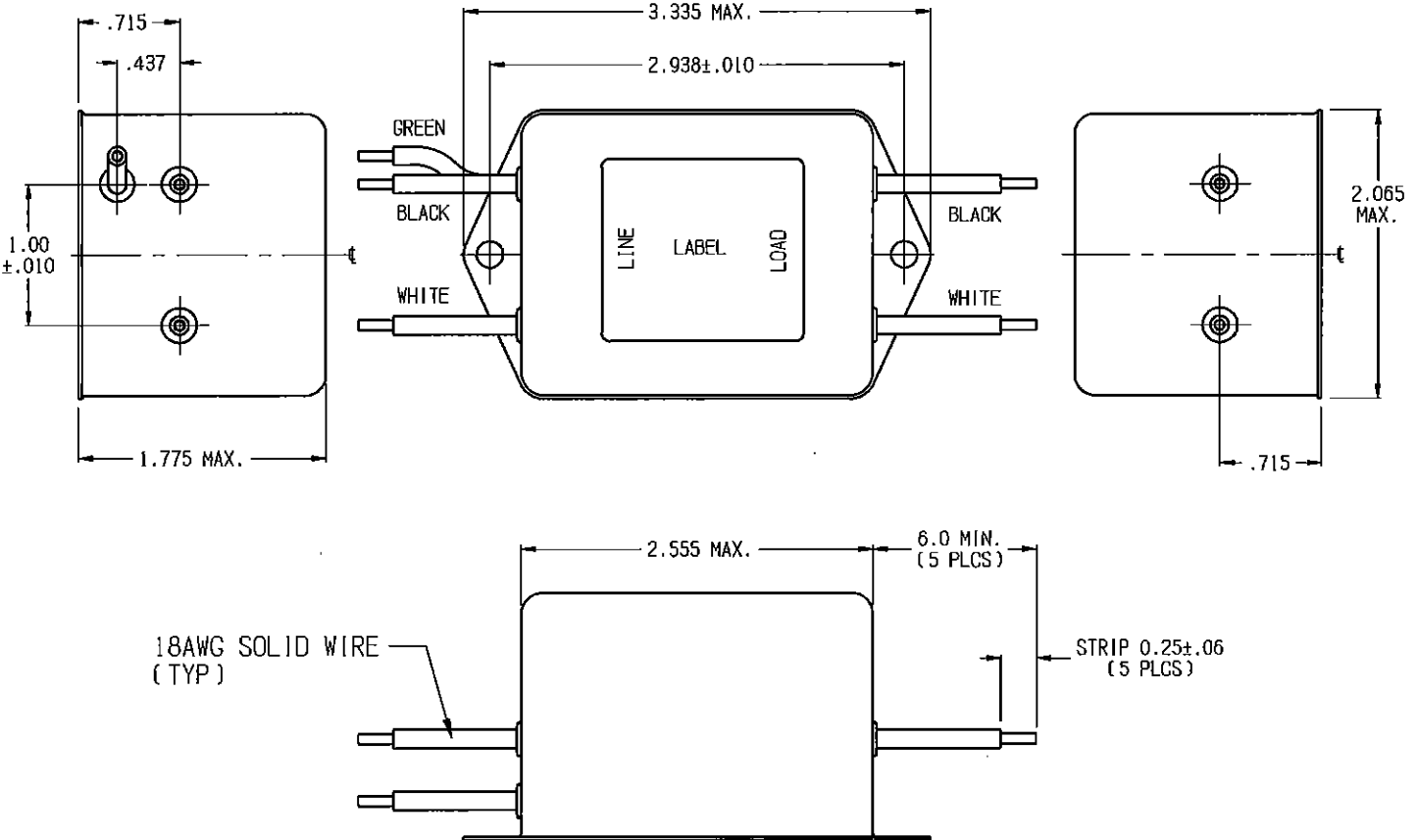
INDUCTANCE: 13.77 mH NOMINAL
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
 LINE TO GROUND: 9990pF
 LINE TO LINE: 2.50μF
 DISCHARGE RESISTOR: 680 KΩ
 L/G AND L/L I.R.
 NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC,
 20°C AND 50% RH

RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 2300 VDC FOR 1 MINUTE
 LINE TO LINE: 1853 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.



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.05	.15	.5	1	5	10	30	/	/	/	/
COMMON dB	16	28	42	46	43	42	46	31	/	/	/	/
DIFF. dB	1	48	70	72	70	70	58	58	/	/	/	/

NOTES:

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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 198-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

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

TE Connectivity

POWER LINE FILTER

TE PART NO.: 6-1609128-4

SCALE: 3/4	DATE: 23MAR14	DRAWING NUMBER: 3FB3-MS	REV. 1
DRW. BY: LJD	DRG: JB		

3FB3MS01.cld