

CUSTOMER DRAWING

CATALOG # HFB3

ECN#	APPRVD	DATE
/	PJO	28FEB12

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
 UL LISTED: UL 935
 CSA CERTIFIED: CSA C22.2 No. 8
 VDE APPROVED: EN 60939-2

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

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 0.5 AMP/50°C, 277 VAC 50-60Hz (UL&CSA)
 0.5 AMP/50°C, 277 VDC (UL&CSA)
 0.5 AMP/50°C, 250 VAC 50-60Hz (VDE)
 0.5 AMP/50°C, 250 VDC (VDE)

TEST SPECIFICATIONS:

INDUCTANCE: 0.89 mH NOMINAL (WHITE)
 1.04 mH NOMINAL (BLACK)
 CAPACITANCE: (MEASURED @ 1 kHz, 0.250VAC MAX., 25°C±1°C)
 LINE TO GROUND: 0.0044µF ± 20 %
 LINE TO LINE: 0.33µF ± 20 %
 DISCHARGE RESISTOR: 1 MEGOHM
 L/G AND L/L I.R.
 NO DISCHARGE RESISTOR: 6000MEG OHM (MIN.) 100VDC 20°C AND 50% RH

MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND:

0.28 mA @ 277V 60Hz
 0.21 mA @ 250V 50Hz

RECOMMENDED RECEIVING INSPECTION HIPOT:

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

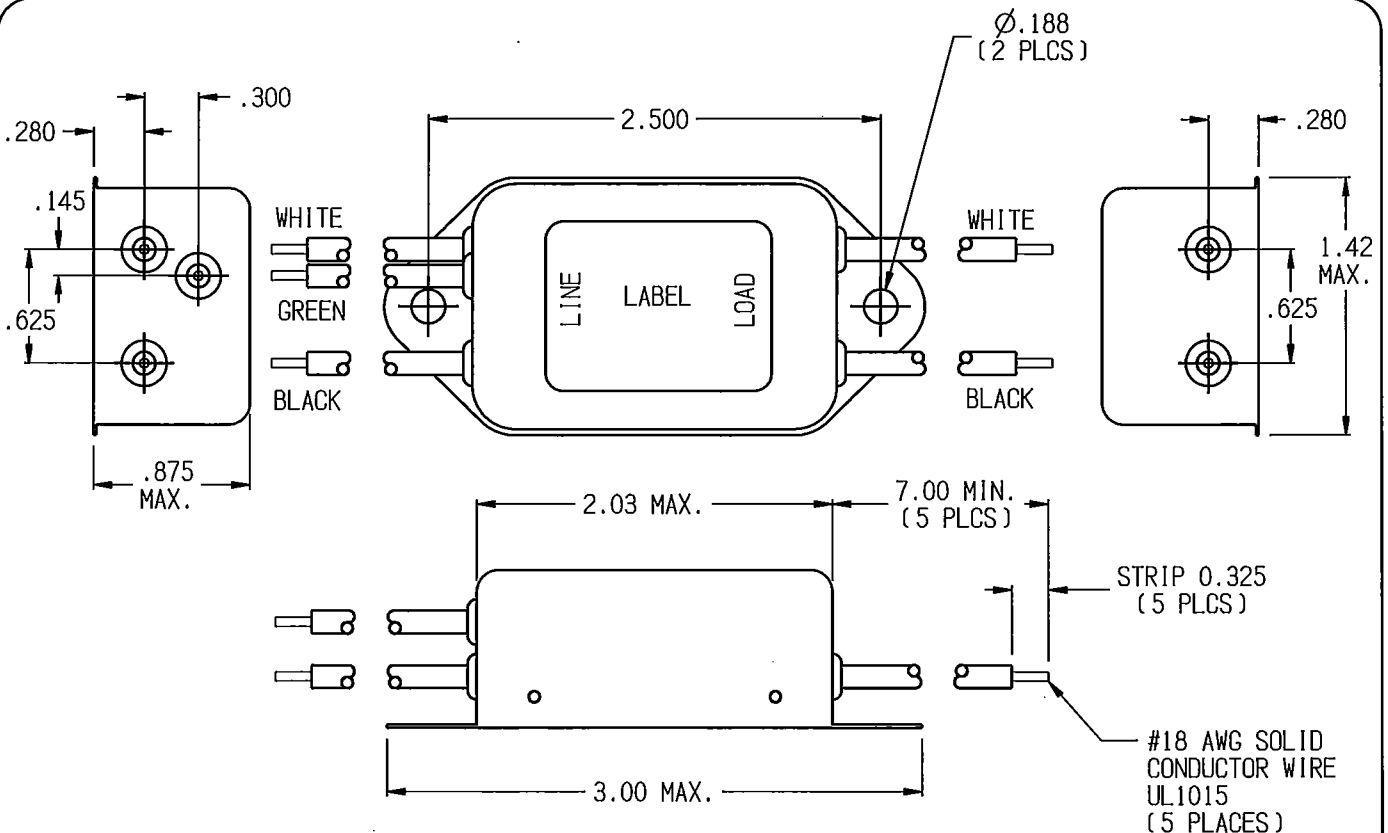
OPERATING AMBIENT TEMP. RANGE: -10°C TO +50°C @ RATED CURRENT, I_r.

IN AN AMBIENT, T₀, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I₀, IS AS FOLLOWS:

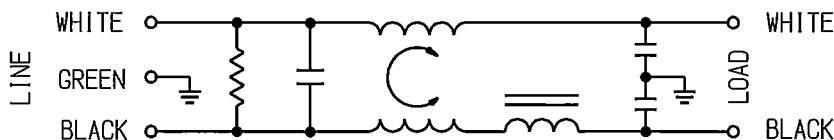
$$I_0 = I_r \sqrt{\frac{85 - T_0}{35}}$$

FILTER APPROVAL:

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



ELECTRICAL SCHEMATIC



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS												
FREQUENCY MHz	.03	.05	.1	.15	.5	1.0	2.0	5.0	10	20	30	/
COMMON dB	4	8	12	14	26	32	41	45	44	38	42	/
DIFF. dB	6	11	20	25	43	51	56	55	51	42	41	/

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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:

STE TE Connectivity

RFI FILTER

TYCO ELECTRONICS PART NO. 8-1609095-8

SCALE: 1:1	DATE: 24MAY11	REV.:
DRW. BY: LJD	DRIG: PJO	DRAWING NUMBER: HFB3
		REV. 3

HFB303.cxd