

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	08JUL2020	SB	LI

SAFETY ORGANIZATIONS

THIS FILTER WILL BE FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS WILL BE MET:

UL RECOGNIZED* 50A 440V 50Hz/60Hz 40°C
CSA CERTIFIED** 50A 440V 50Hz/60Hz 40°C
*31 JULY 2020 ; **31 AUGUST 2020

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 50A, 440VAC
LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 8.5mA @ 230VAC, 50Hz

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -25°C TO +40°C

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 AND 95% RH

TEST SPECIFICATIONS

INDUCTANCE, NOMINAL: 1.2mH

CAPACITANCE @ 1kHz
LINE TO GROUND, NOMINAL: 1.86µF
NEUTRAL TO GROUND, NOMINAL: 2.2µF
LINE TO NEUTRAL, NOMINAL: 10µF

DISCHARGE RESISTOR

L/L I.R. 2MΩ 1W
L/N I.R. 1MΩ 1W
L/G I.R. 2MΩ 1W
N/G I.R. 1MΩ 1W
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

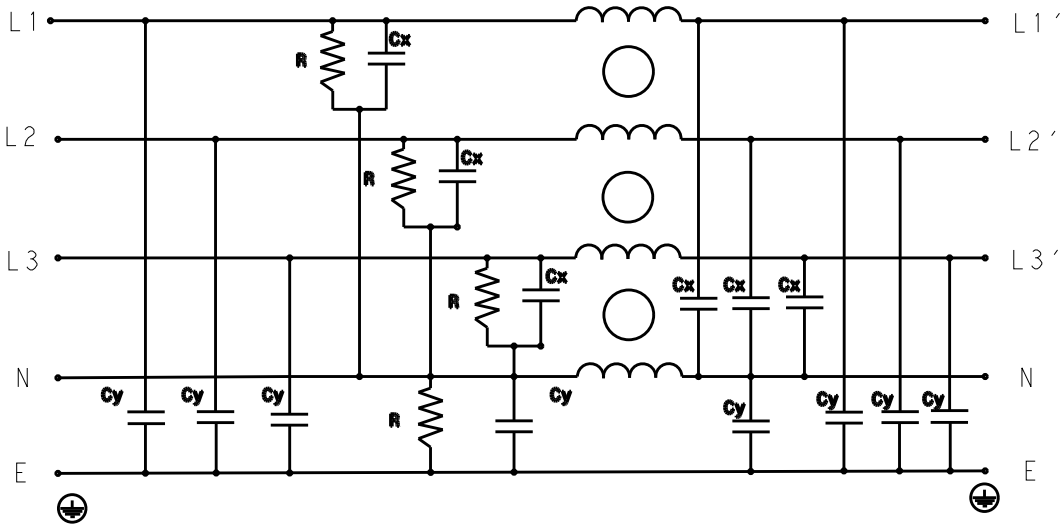
RECOMMENDED RECEIVING INSPECITON HIPOT

LINE TO GROUND FOR 1 MINUTE: 2632VDC
LINE TO LINE FOR 1 MINUTE: 1892VDC
LINE TO NEUTRAL FOR 1 MINUTE: 1093VDC

FILTER APPROVAL

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

LINE SIDE



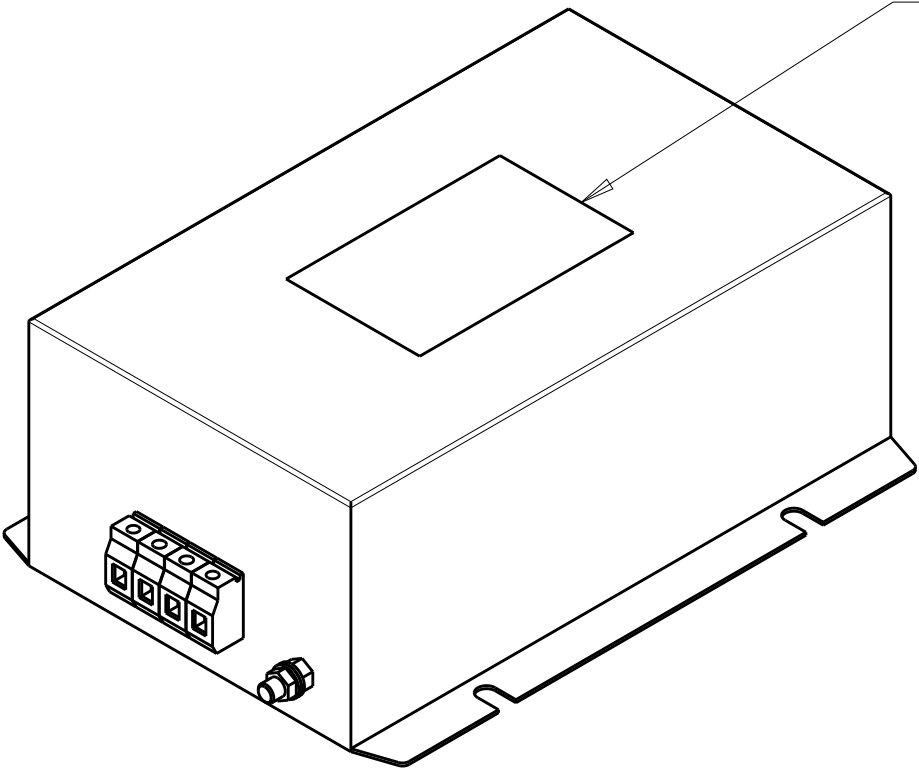
SCHEMATIC

LOAD SIDE

TYPICAL INSERTION LOSS
COMMON MODE 50/50Ω; DIFFERENTIAL MODE 50/50Ω

MHz	0.01	0.05	0.15	0.5	1	3	5	10	30
CM	68	65	63	54	49	42	38	32	36
DM	58	52	60	50	43	50	42	38	30

LABEL TO TE
MARKING SPECIFICATION



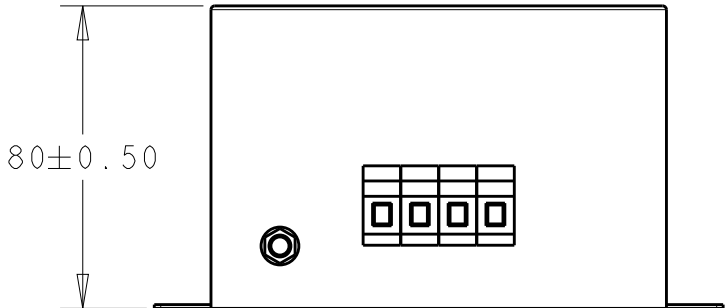
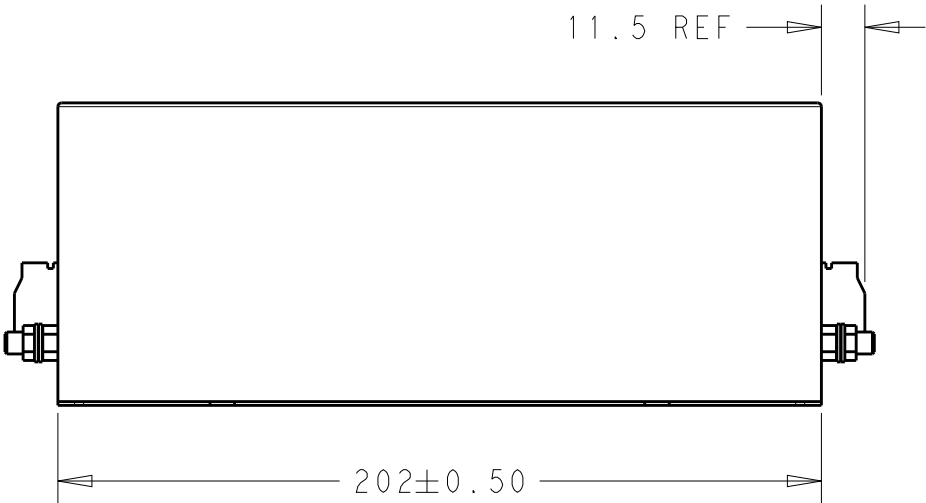
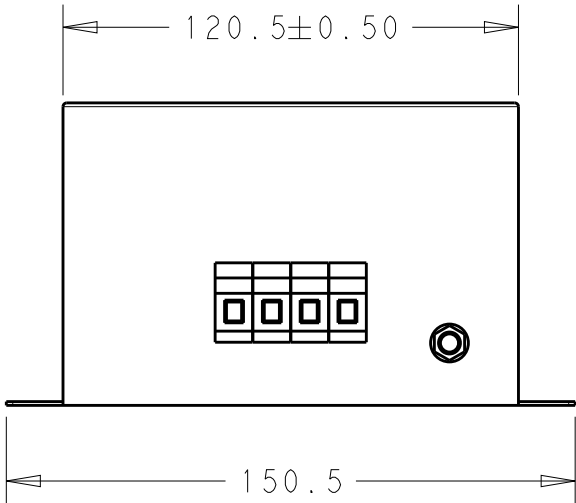
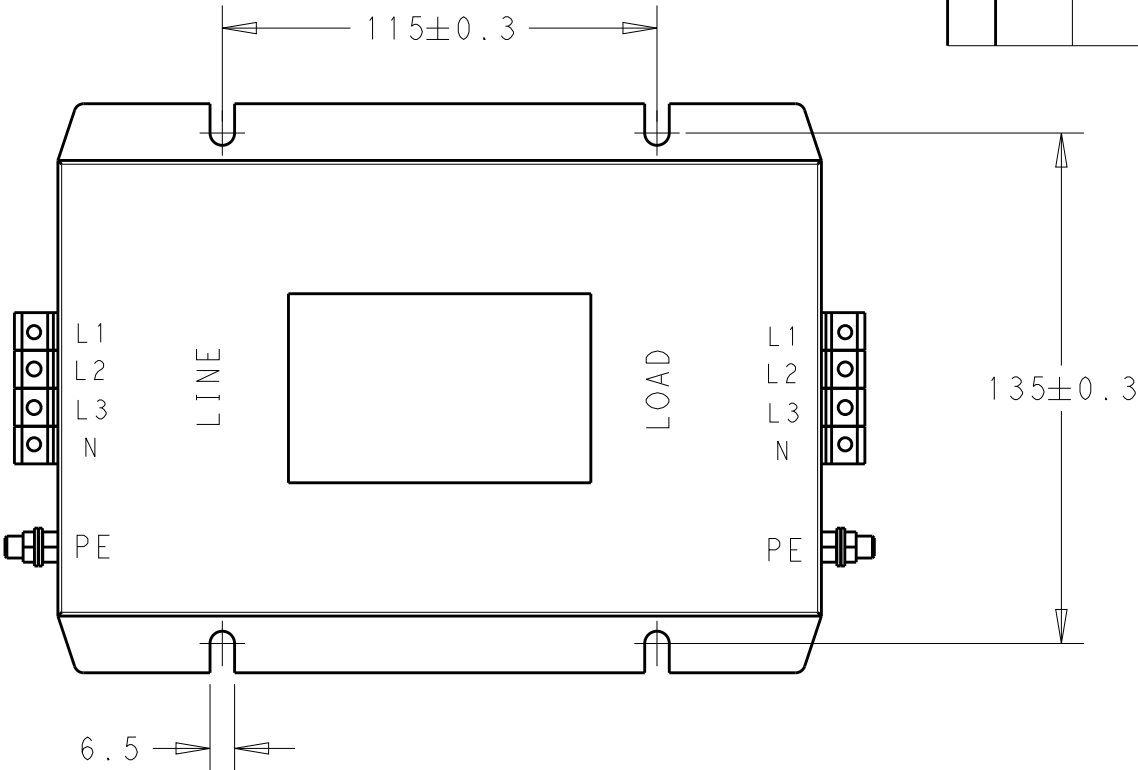
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 28FEB2020 SHRICARANA B	TE Connectivity		
DIMENSIONS: mm		CHK 28FEB2020 LEO IRUDHAYARAJ			
		APVD 28FEB2020 LEO IRUDHAYARAJ			
		PRODUCT SPEC			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC	NAME POWER LINE FILTER 50KEPS10AFPW		
0 PLC ±0.5 1 PLC ±0.4 2 PLC ±0.130 3 PLC ±0.0500 4 PLC ANGLES ±0.0500		WEIGHT			
MATERIAL		FINISH	SIZE A3	CAGE CODE 00779	DRAWING NO C-1-1609968-7
			RESTRICTED TO		
			SCALE 1:2 SHEET 1 OF 2 REV B		
			CUSTOMER DRAWING		

NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL SCREWS: 1.2Nm / 10.8 in.lbs
TORQUE GROUND NUTS: 2.5-3Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL
AWG SIZE: 26-8 AWG
WIRE SECTION: 10 mm²
THREADED BOLT SIZE FOR GROUND: M6

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



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DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 28FEB2020			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD LEO IRUDHAYARAJ 28FEB2020			
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		CUSTOMER DRAWING	SCALE 1:2	SHEET 2 OF 2	REV B