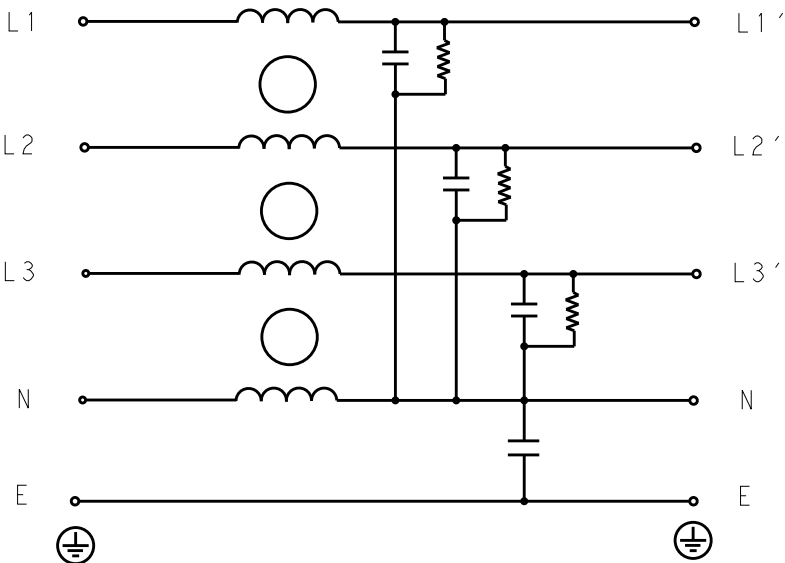


P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	07JUL2020	SB	LI

LINE SIDE

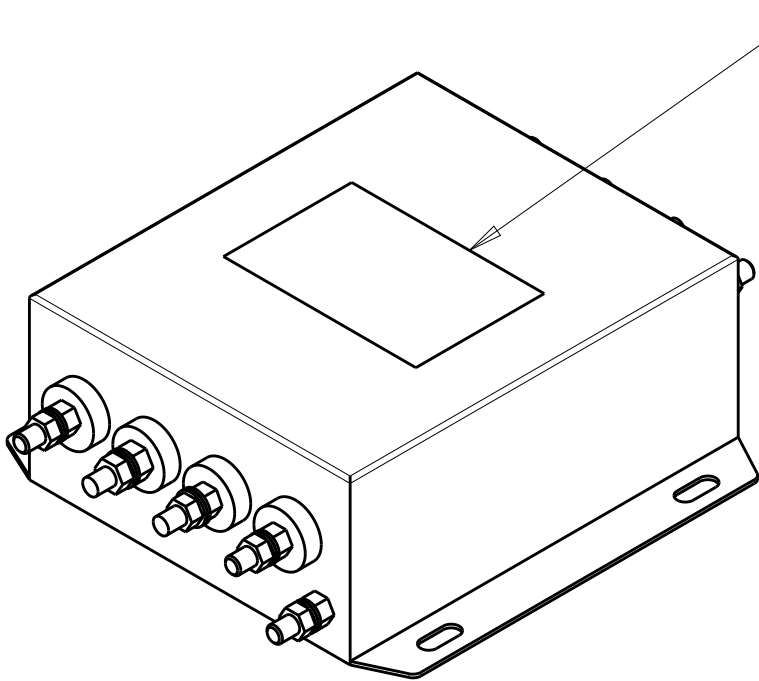


LOAD SIDE

SCHEMATIC

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	4	4	11	24	32	42	48	34	20
DM	14	20	28	42	50	30	26	20	22



LABEL TO TE
MARKING SPECIFICATION

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: 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: 0.25mH

CAPACITANCE @ 1kHz
NEUTRAL TO GROUND, NOMINAL: 22nF
LINE TO NEUTRAL, NOMINAL: 470nF

DISCHARGE RESISTOR
L/G I.R. 2MΩ 1W
L/L I.R. 2MΩ 1W
L/N I.R. 1MΩ 1W
N/G I.R. 680KΩ 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

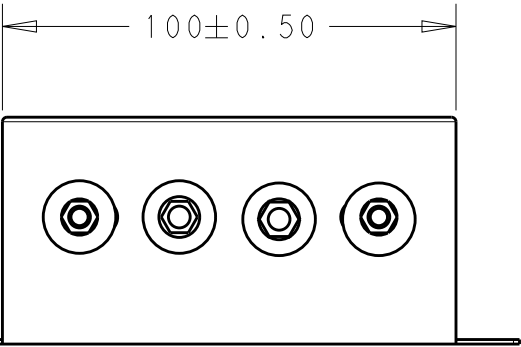
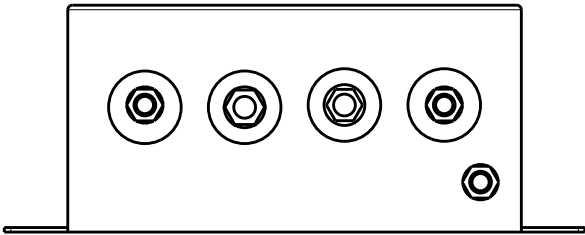
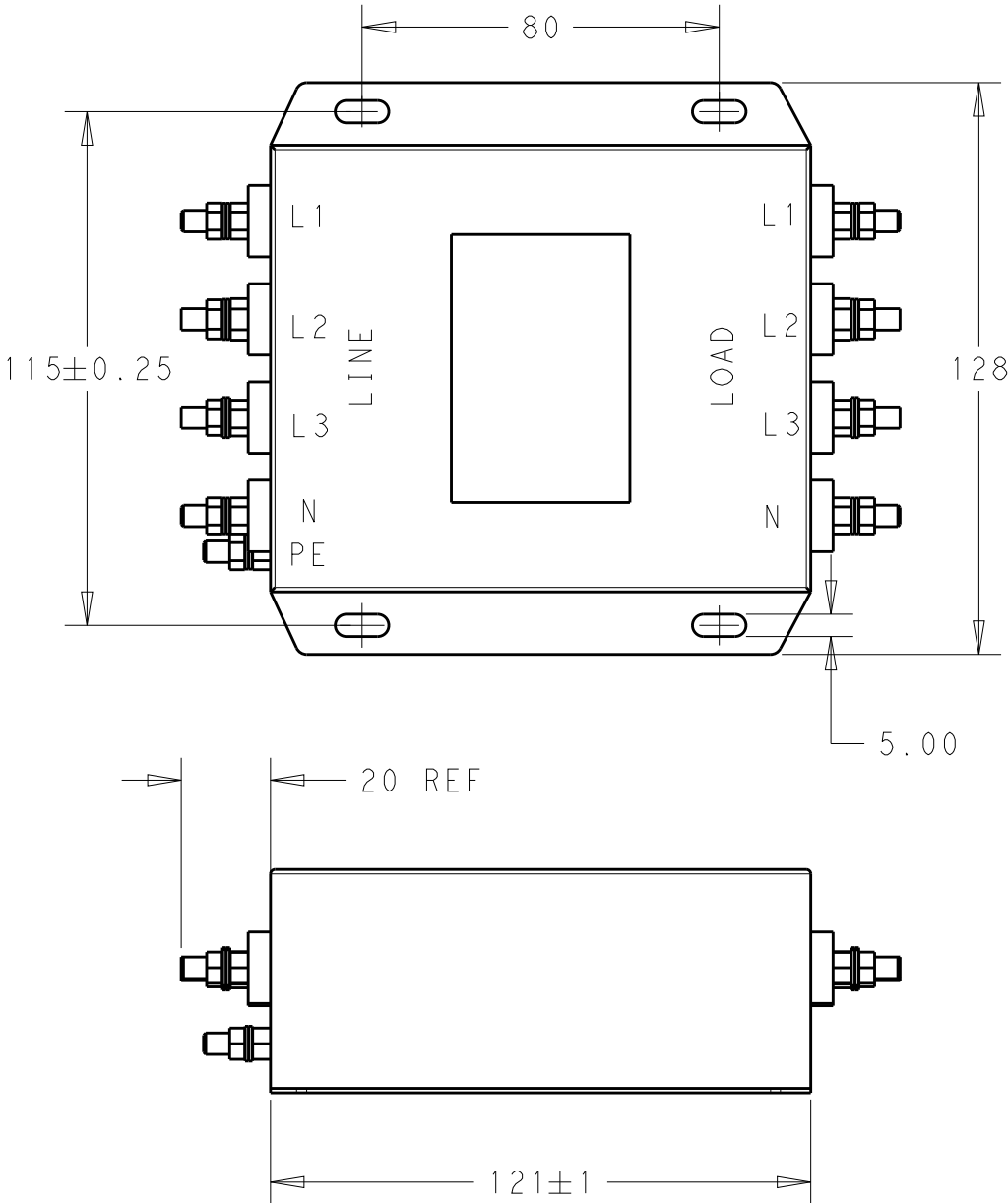
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICHARANA B 20FEB2020	 TE Connectivity			
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.5 2 PLC ±0.40 3 PLC ±0.130 4 PLC ±0.0500 ANGLES ±-	CHK LEO IRUDHAYARAJ 20FEB2020				
		APVD LEO IRUDHAYARAJ 20FEB2020	NAME POWER LINE FILTER 50KESS6AFPW			
		PRODUCT SPEC -				
APPLICATION SPEC -		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO -	
MATERIAL - -		FINISH - -	WEIGHT -	A3		00779
CUSTOMER DRAWING			SCALE 3:5	SHEET 1 OF 2	REV B	

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			

NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL /GROUND NUTS: 2.5-3Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL
AWG SIZE: XXX
THREADED BOLT SIZE FOR TERMINAL: M6
THREADED BOLT SIZE FOR GROUND: M6



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICHARANA B 20FEB2020	 TE Connectivity		
DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 20FEB2020			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD LEO IRUDHAYARAJ 20FEB2020	NAME POWER LINE FILTER 50KESS6AFPW		
0 PLC ±0.5 1 PLC ±0.5 2 PLC ±0.40 3 PLC ±0.130 4 PLC ±0.0500 ANGLES ±0.5		PRODUCT SPEC -	SIZE A300779		
MATERIAL -		APPLICATION SPEC -	CAGE CODE C-1-1609966-9		
FINISH -		WEIGHT -	DRAWING NO C-1-1609966-9		
CUSTOMER DRAWING		SCALE 3:5		SHEET 2 OF 2	REV B