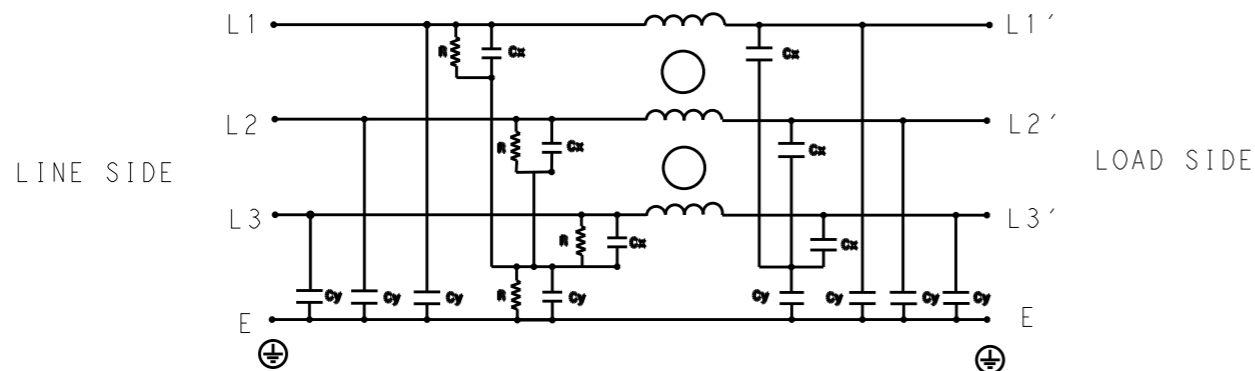


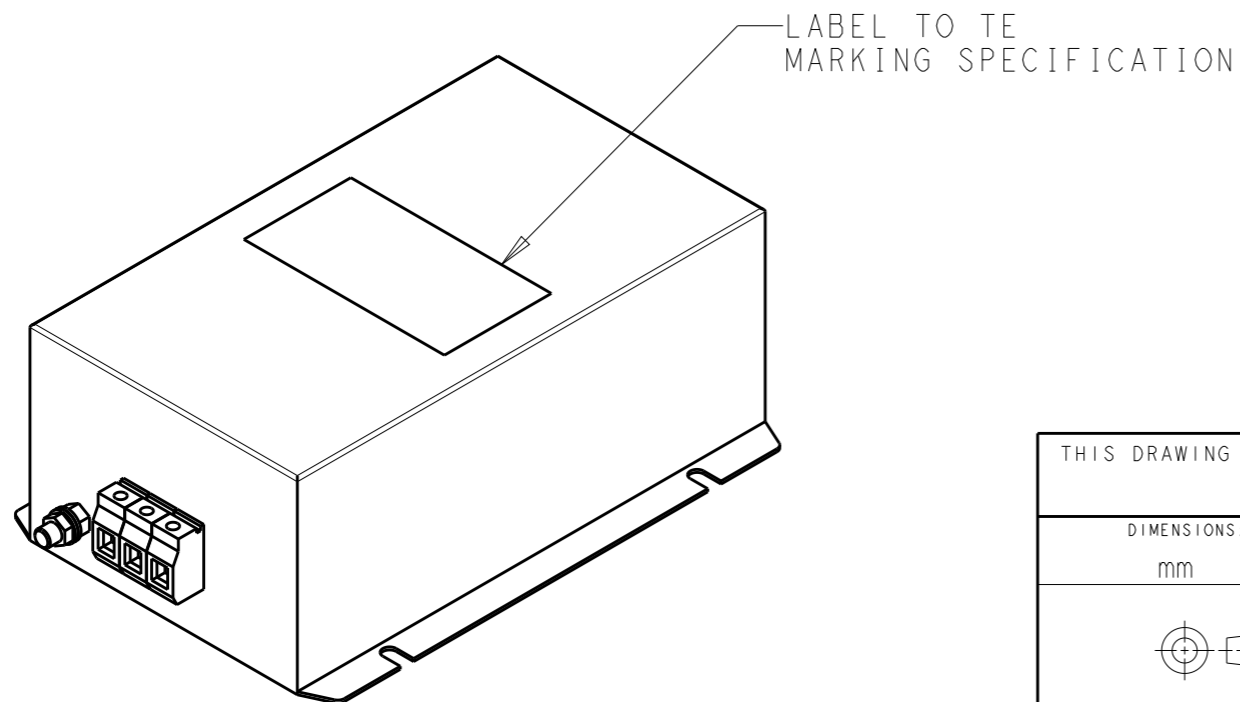
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	07JUL2020	SB	LI



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	65	64	61	55	51	42	38	33	27
DM	20	23	36	61	49	38	34	29	25



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\* 10A 520V 50Hz/60Hz 40°C  
 CSA CERTIFIED\*\* 10A 520V 50Hz/60Hz 40°C

\*31 JULY 2020 ; \*\*31 AUGUST 2020

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 10A, 520VAC  
 LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 18mA @ 230VAC, 50Hz

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

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, 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: 8mH

CAPACITANCE @ 1kHz

LINE TO GROUND, NOMINAL: 1.1μF  
 LINE TO LINE, NOMINAL: 1μF

DISCHARGE RESISTOR

L/G I.R. 1MΩ 1W  
 L/L I.R. 2MΩ 1W  
 L/N I.R. XXX  
 N/G I.R. XXX

IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECTION HIPOT

LINE TO GROUND FOR 1 MINUTE: 2856VDC  
 LINE TO LINE FOR 1 MINUTE: 2236VDC

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	20FEB2020		
		CHK	20FEB2020		
		APVD	20FEB2020		
		NAME	LEO IRUDHAYARAJ		
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
mm				POWER LINE FILTER	
		0 PLC ±-		10KEMS10BFPD	
		1 PLC ±0.5		SIZE	
		2 PLC ±0.40		CAGE CODE	
		3 PLC ±0.130		DRAWING NO	
		4 PLC ±0.0500		RESTRICTED TO	
		ANGLES ±-		A300779	
MATERIAL		FINISH		C-4-1609967-2	
				SCALE	
				1:2	
				SHEET	
				1 OF 2	
				REV	
				B	
		WEIGHT		CUSTOMER DRAWING	
				SCALE	
				1:2	
				SHEET	
				1 OF 2	
				REV	
				B	

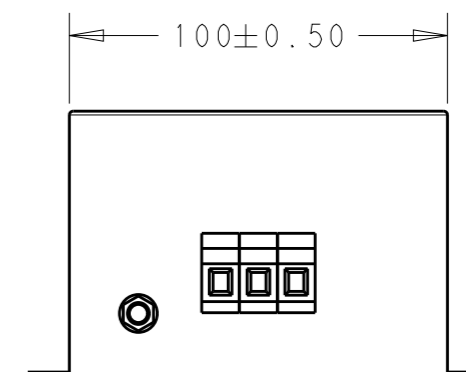
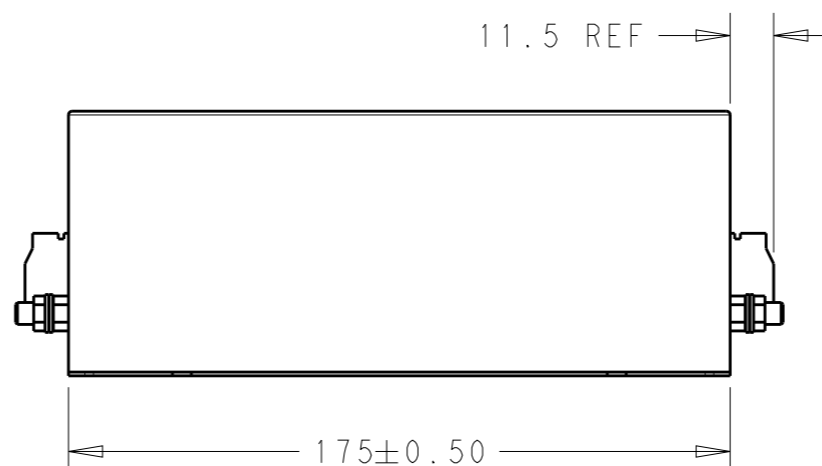
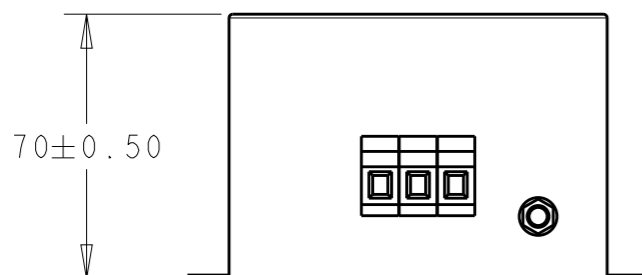
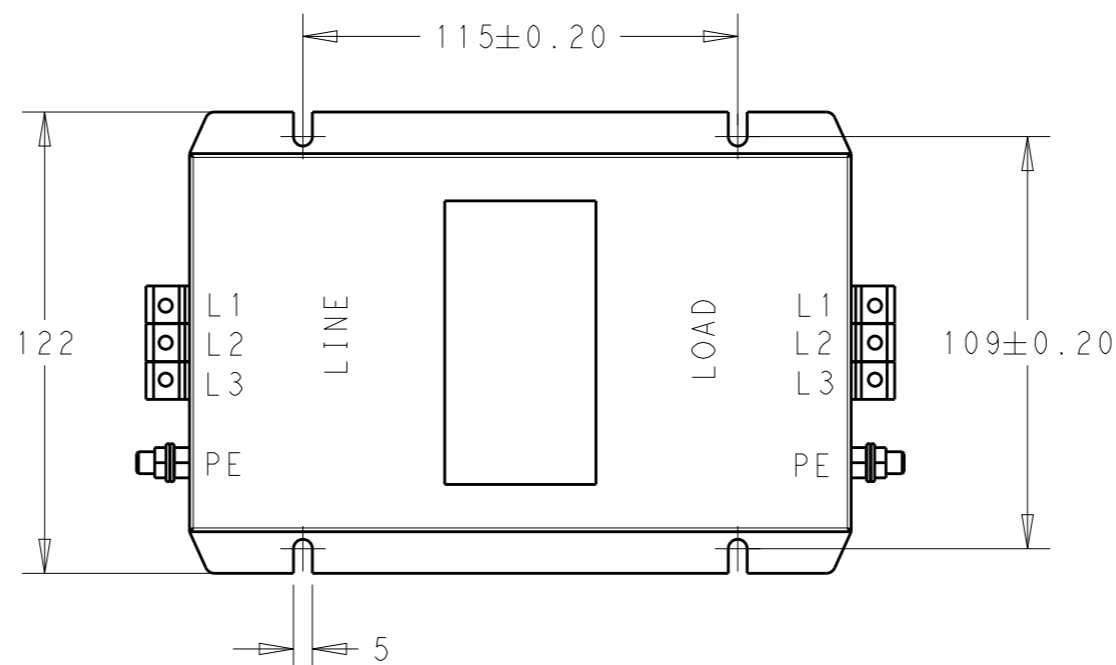
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NOTE 1 GROUND CONNECTION:  
 DO NOT LOOSEN INNER GROUND NUTS.  
 TORQUE OUTER TERMINAL SCREWS: 0.5Nm / 4.5 in.lbs  
 TORQUE GROUND NUTS: 2.5-3Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
 AWG SIZE: 26-12 AWG  
 WIRE SECTION: 4 mm<sup>2</sup>  
 THREADED BOLT SIZE FOR GROUND: M6

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



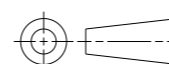
THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN 20FEB2020  
 SHRICHARANA B  
 CHK 20FEB2020  
 LEO IRUDHAYARAJ  
 APVD 20FEB2020  
 LEO IRUDHAYARAJ



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 ±-

MATERIAL

-

FINISH

-

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

-

NAME  
 POWER LINE FILTER  
 10KEMS10BFPD

SIZE CAGE CODE DRAWING NO RESTRICTED TO

A300779 C-4-1609967-2

CUSTOMER DRAWING

SCALE 1:2 SHEET 2 OF 2 REV B