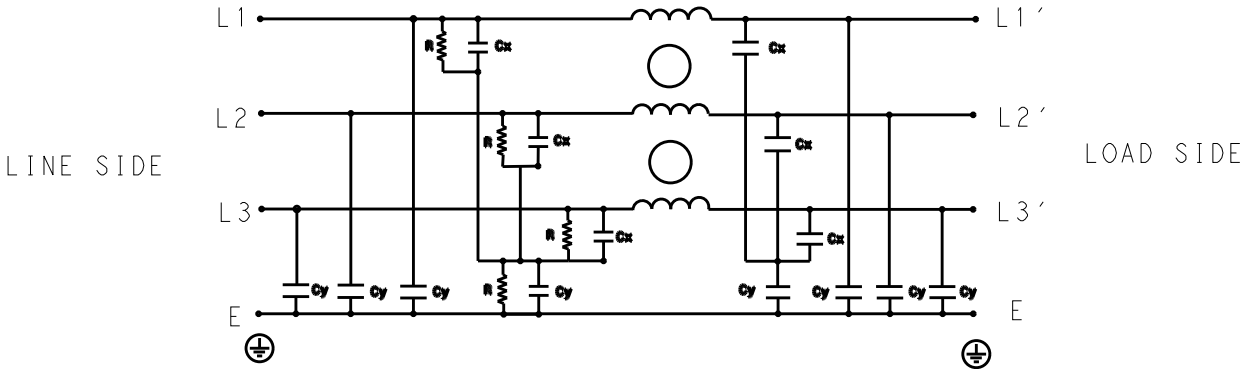


REVISIONS

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



SCHEMATIC

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 * 16A 440V 50Hz/60Hz 40°C
CSA CERTIFIED ** 16A 440V 50Hz/60Hz 40°C

* 31 JULY 2020 ; ** 31 AUGUST 2020

OPERATING SPECIFICATION
LINE CURRENT/VOLTAGE: 16A, 440VAC
LINE FREQUENCY: 50/60Hz

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

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

IN AN AMBIENT, Ta, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, Io, 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: 5mH

CAPACITANCE @ 1kHz
LINE TO GROUND, NOMINAL: 1.58µF
LINE TO LINE, NOMINAL: 2.5µF

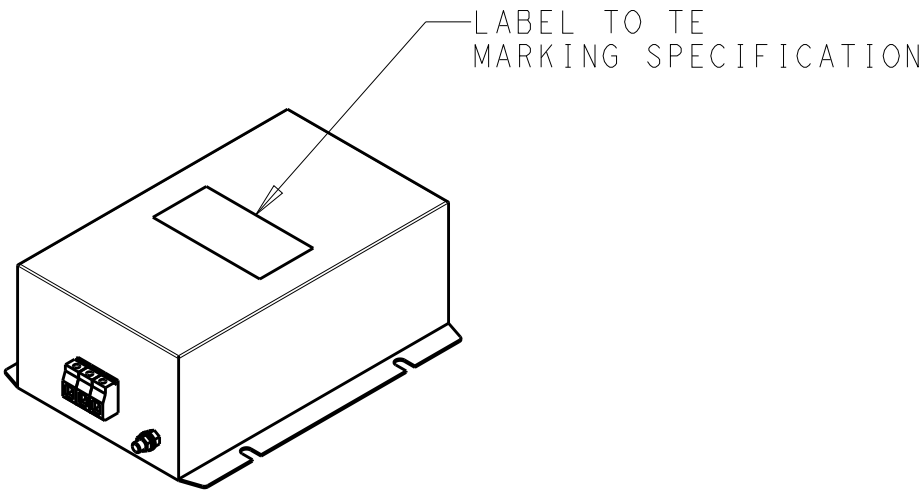
DISCHARGE RESISTOR
L/G I.R. 1MΩ 1W
L/L I.R. 2MΩ 1W
L/N I.R. XXX
N/G I.R. XXX
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

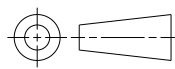
RECOMMENDED RECEIVING INSPECITON HIPOT
LINE TO GROUND FOR 1 MINUTE: 2632VDC
LINE TO LINE FOR 1 MINUTE: 1892VDC

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

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	57	55	56	54	49	41	37	32	29
DM	35	37	46	55	48	38	35	29	26

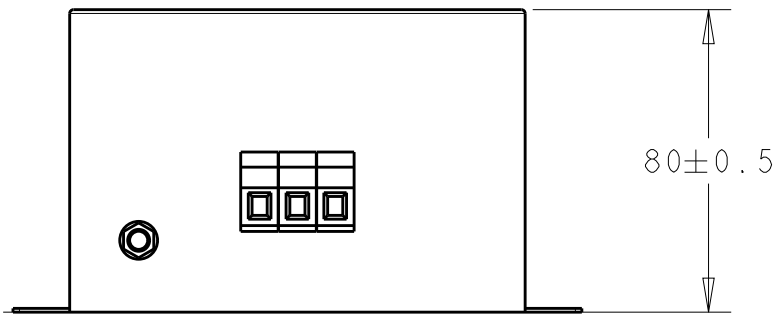
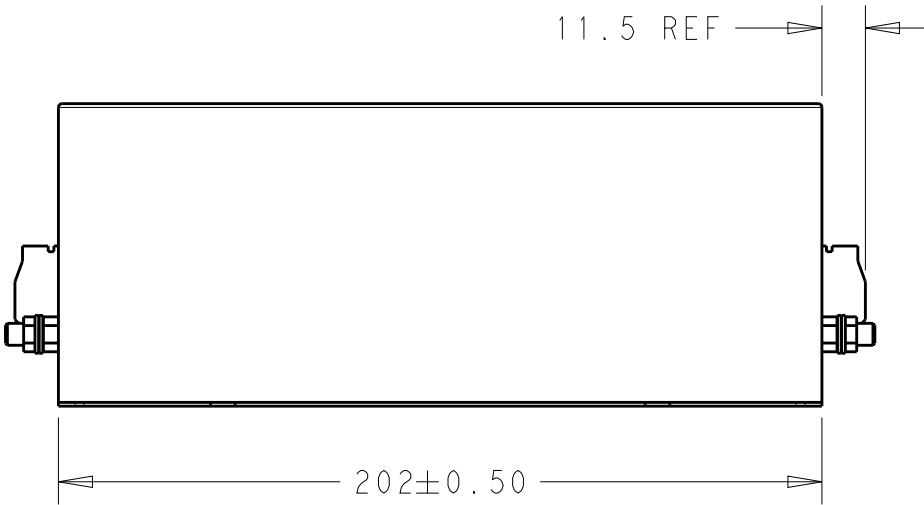
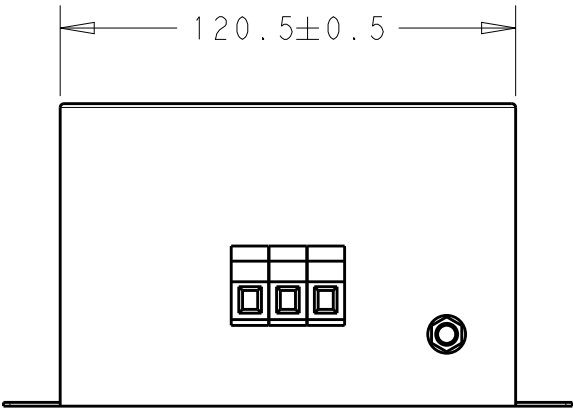
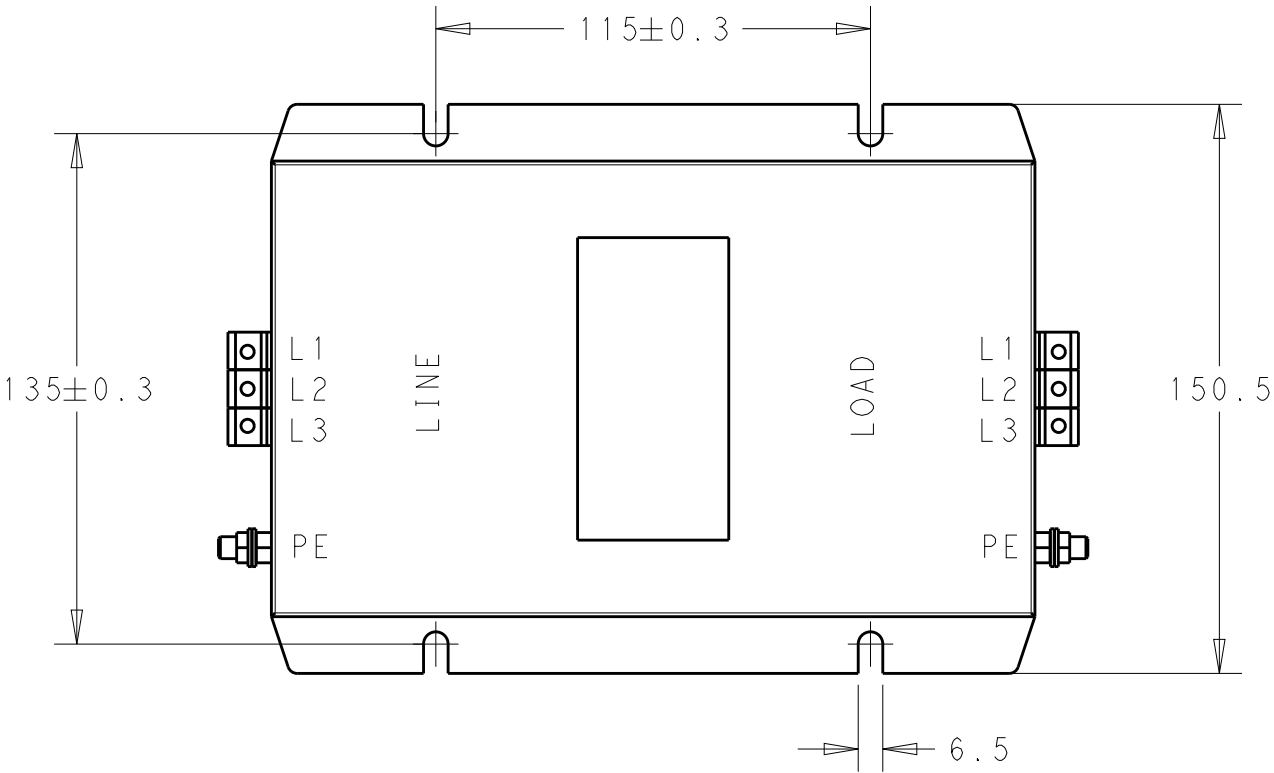


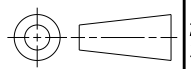
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICARANA B 20FEB2020	 TE Connectivity		
DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 20FEB2020			
		APVD LEO IRUDHAYARAJ 20FEB2020			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC			
		APPLICATION SPEC	NAME POWER LINE FILTER 16KEMS10AFPD		
MATERIAL		WEIGHT	SIZE A3	CAGE CODE 00779	DRAWING NO C-1-1609967-3
FINISH		CUSTOMER DRAWING	SCALE 1:4	SHEET 1 OF 2	RESTRICTED TO REV B

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 mm²
THREADED BOLT SIZE FOR GROUND: M6

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICHARANA B 20FEB2020	 TE Connectivity		
DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 20FEB2020			
		APVD LEO IRUDHAYARAJ 20FEB2020	NAME POWER LINE FILTER 16KEMS10AFPD		
		PRODUCT SPEC	SIZE A300779		
		APPLICATION SPEC	CAGE CODE C-1-1609967-3		
MATERIAL -		FINISH -	DRAWING NO C-1-1609967-3		
		WEIGHT -	RESTRICTED TO -		
		CUSTOMER DRAWING	SCALE 1:2		
			SHEET 2 OF 2		
			REV B		