

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	07JUL2020	SR	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 520V 50Hz/60Hz 40°C
CSA CERTIFIED** 50A 520V 50Hz/60Hz 40°C
*31 JULY 2020 ; **31 AUGUST 2020

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 50A, 520VAC
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
LINE TO GROUND, NOMINAL: 21nF
LINE TO LINE, NOMINAL: 235nF

DISCHARGE RESISTOR
L/G I.R. 680KΩ 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 HIPOI

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.

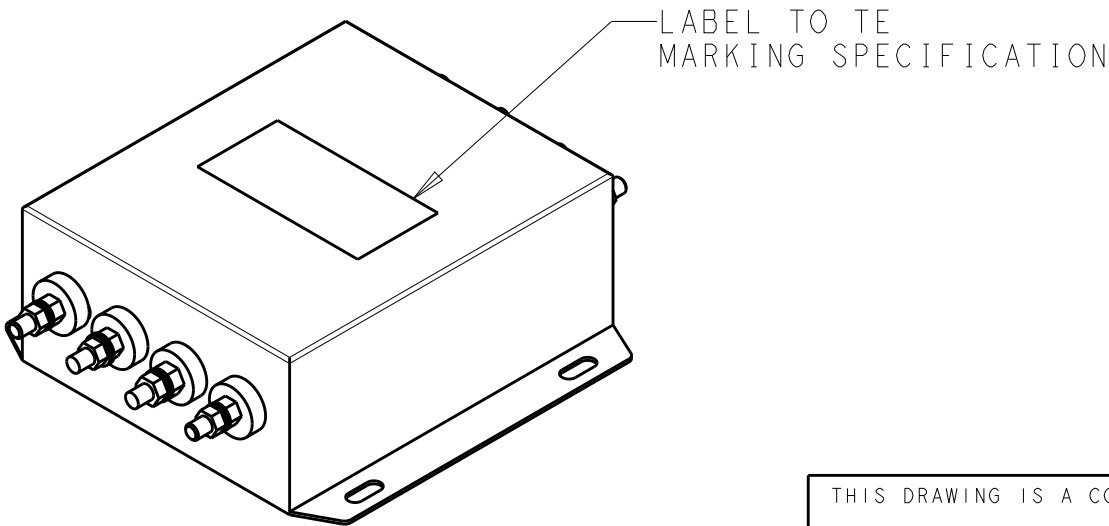
LINE SIDE

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	3	3	10	23	32	34	45	43	30
DM	3	4	8	29	31	36	42	49	49



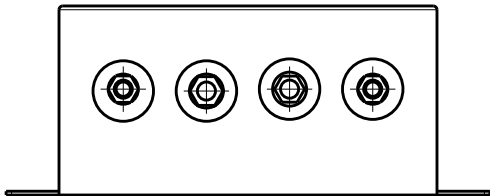
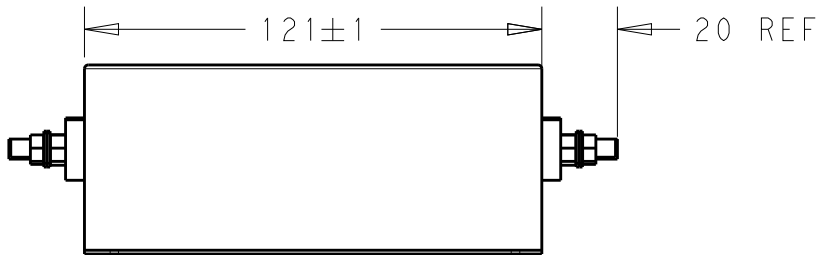
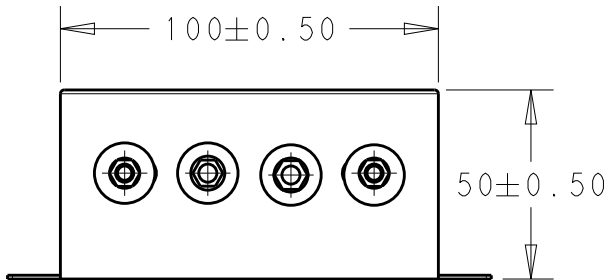
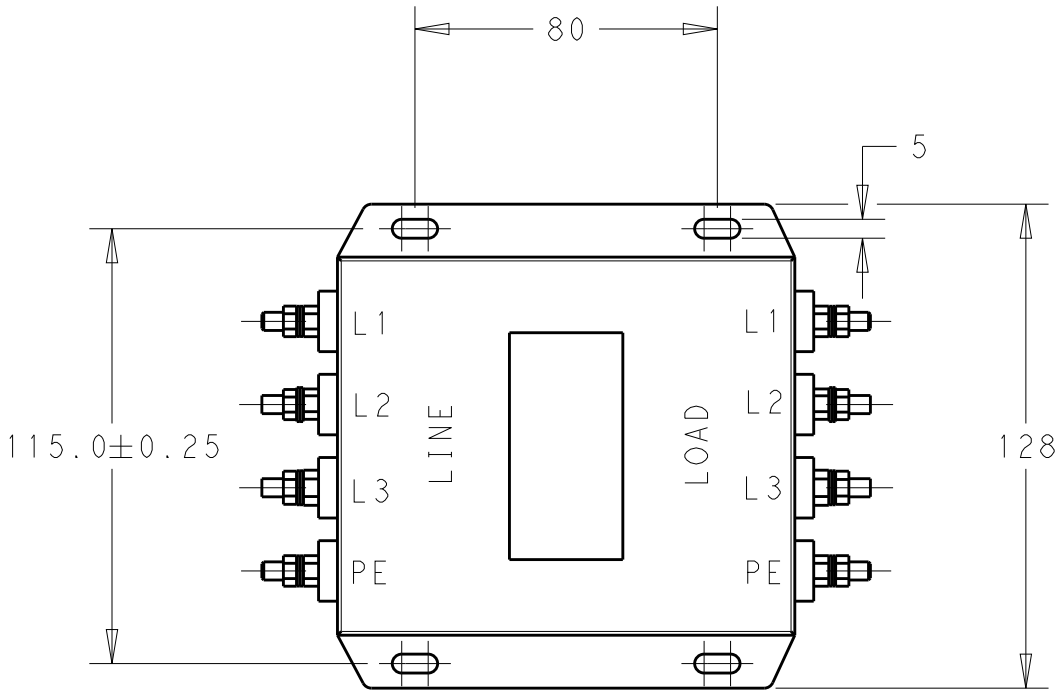
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 06FEB2020 SUPREETH R	TE Connectivity		
		CHK 06FEB2020 LEO IRUDHAYARAJ			
		APVD 06FEB2020 LEO IRUDHAYARAJ			
		PRODUCT SPEC			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME POWER LINE FILTER 50KEBS6BFPD	
		0 PLC ± 1 PLC ±0.5 2 PLC ±0.40 3 PLC ±0.130 4 PLC ±0.0500 ANGLES ±		SIZE	
				CAGE CODE	
MATERIAL		FINISH		DRAWING NO	
-		-		A300779	
-		-		C-4-1609965-9	
				RESTRICTED TO	
				-	
				SCALE 1:2	
				SHEET 1 OF 2	
				REV B	
				CUSTOMER DRAWING	

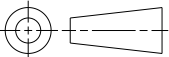
NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL /GROUND NUTS: 2.5-3 Nm

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

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



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DIMENSIONS: mm		CHK 06FEB2020 LEO IRUDHAYARAJ			
		APVD 06FEB2020 LEO IRUDHAYARAJ			
		PRODUCT SPEC			
		APPLICATION SPEC	NAME POWER LINE FILTER 50KEBS6BFPD		
MATERIAL -		WEIGHT -	SIZE A3	CAGE CODE 00779	DRAWING NO C-4-1609965-9
		CUSTOMER DRAWING	SCALE 1:2	SHEET 2 OF 2	REV B