

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASE TO PRODUCTION	04MAY2023	DM	CB

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 AS PER
UL 60939-3 AND CSA22.2 No 8

1600A / 1500VDC / 55°C

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 1600A, 1500VDC

OVERLOAD CAPABILITY: 135% RATED CURRENT FOR 15 MINUTES

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -40°C TO +55°C

IN AN AMBIENT, T_a , HIGHER THAN 55°C , THE MAXIMUM OPERATING CURRENT, I_o , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{55}}$$

RELIABILITY SPECIFICATIONS

STORAGE TEMPERATURE: -40°C TO +100°C

HUMIDITY: 21 DAYS @ 40°C AND 95% RH

TEST SPECIFICATIONS

INDUCTANCE, NOMINAL: 0.0188mH

CAPACITANCE @ 1kHz, 0.250VAC MAX, 25°C +/- 1°C

LINE TO GROUND, NOMINAL: 0nF +/-20%

LINE TO LINE, NOMINAL: $4.4\mu\text{F} \pm 20\%$

DISCHARGE RESISTOR

LINE TO GROUND: 0Ω 2W

LINE TO LINE : $15\text{M}\Omega$ 2W

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

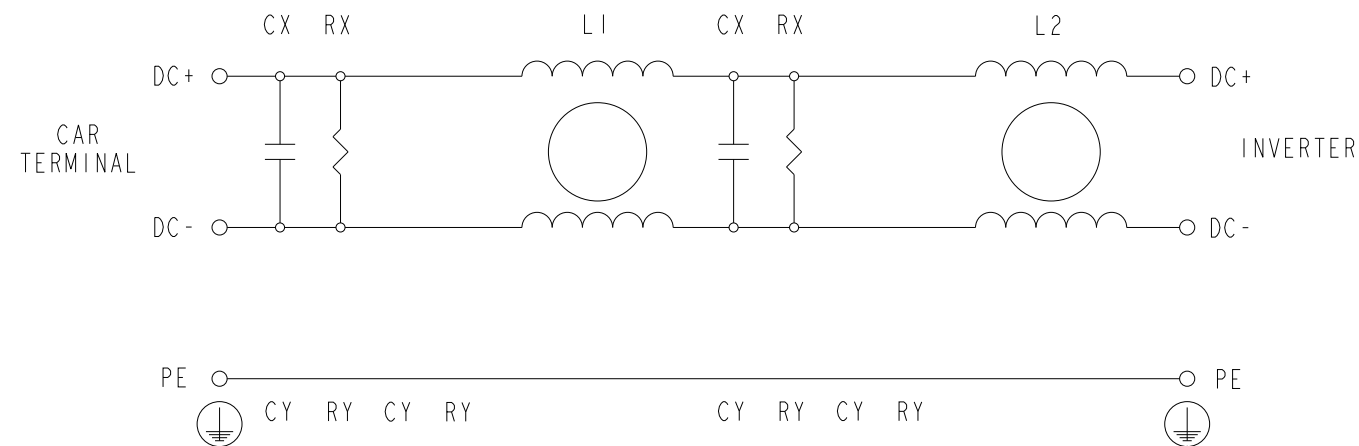
HI POT RATING (ONE MINUTE)

LINE TO GROUND: 6000 VDC FOR 2 SECONDS

LINE TO LINE: 3600 VDC FOR 2 SECONDS

FILTER APPROVAL

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

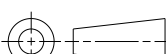


TYPICAL CIRCUIT DIAGRAM

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

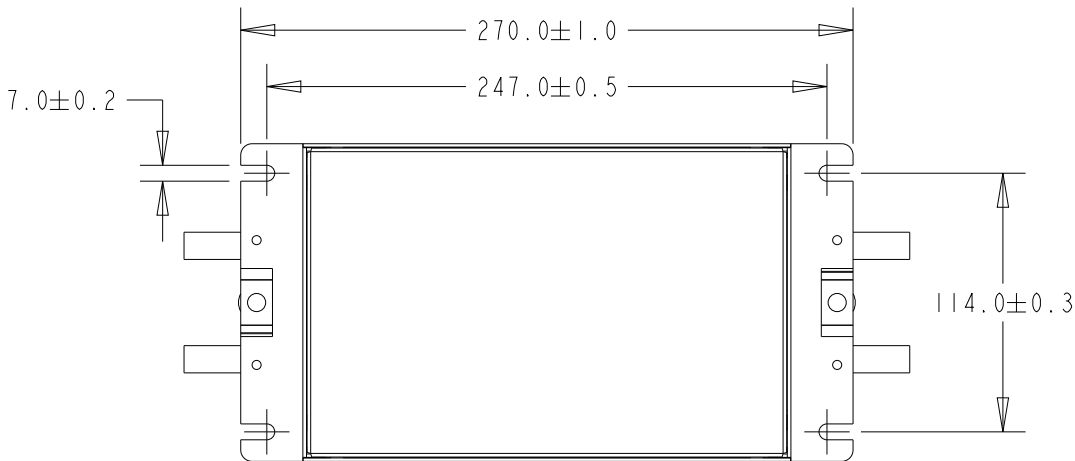
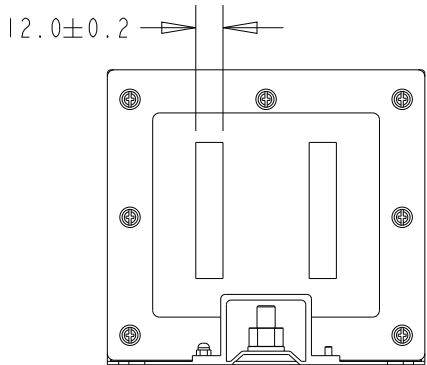
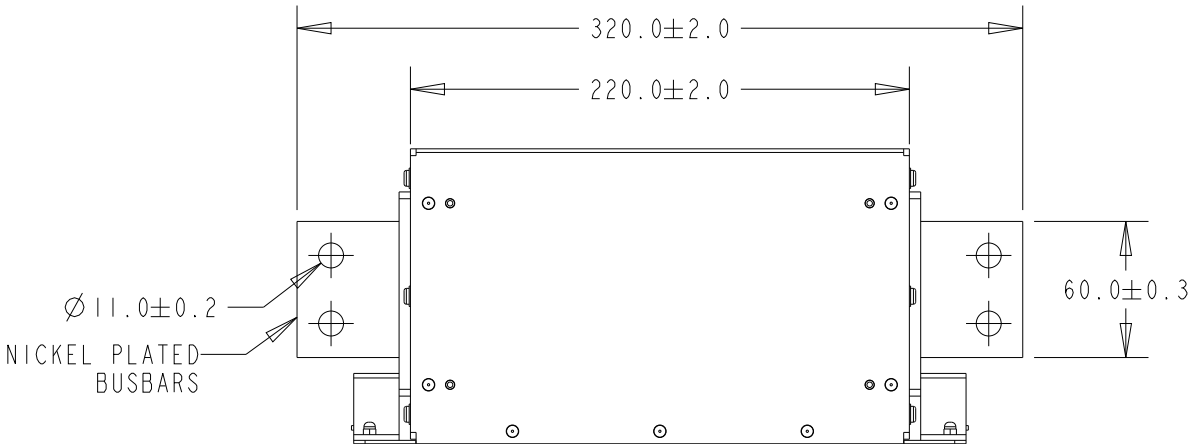
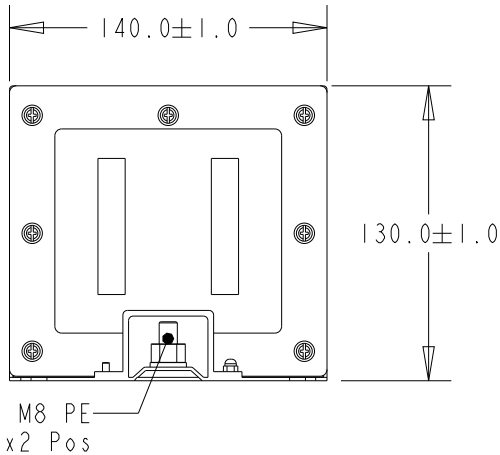
1600 EVX C A									
FREQUENCY (MHz)	0.01	0.05	0.15	0.5	1	3	5	10	30
COMMON MODE	0	0	0	3	3	3	2	1	21
DIFFERENTIAL MODE	21	35	50	45	37	30	27	21	18

TE PN	CATALOG NO.	Y CAPACITANCE (nF)
2-2443555-1	1600 EVX C A	0

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C.BOLLE		10JAN2023		 TE Connectivity	
DIMENSIONS: mm		CHK L.RAJ		25APR2023			
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD L.RAJ		NAME 1600 EVX C A	
		0 PLC ±- 1 PLC ±0.1 2 PLC ±0.01 3 PLC ±0.001 4 PLC ±0.0001 ANGLES ±-		25APR2023		HIGH CURRENT DC EMI FILTER	
MATERIAL -		FINISH -		PRODUCT SPEC -		1500V 1600A	
				APPLICATION SPEC -		SIZE A3	
				WEIGHT -		CAGE CODE 00779	
				CUSTOMER DRAWING		DRAWING NO C-2-2443555-1	
						RESTRICTED TO -	
						SCALE 1:6	
						SHEET 1 OF 2	
						REV A	

REVISIONS

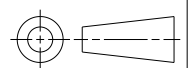
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



NOTE 1 GROUND CONNECTIONS:
M8 GROUND NUTS TYP. TORQUE (Nm): 7
REMOVE PLASTIC COVER. MAKE CONNECTION. REPLACE PLASTIC COVER.

NOTE 2 INPUT OUTPUT CONNECTION BUSBAR:
CONNECTION METHOD: SCREW CONNECTION M11 FASTENER.

THE ABOVE DATA IS FOR GUIDANCE/REFERENCE ONLY.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C.BOLLE 10JAN2023		 TE Connectivity											
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK L.RAJ 25APR2023		NAME 1600 EVX C A HIGH CURRENT DC EMI FILTER 1500V 1600A									
		0 PLC ±- 1 PLC ±0.1 2 PLC ±0.01 3 PLC ±0.001 4 PLC ±0.0001 ANGLES ±-		APVD L.RAJ 25APR2023											
				PRODUCT SPEC -											
				APPLICATION SPEC -											
MATERIAL - -		FINISH - -		WEIGHT -		SIZE A3		CAGE CODE 00779		DRAWING NO C-2-2443555-1		RESTRICTED TO -			
CUSTOMER DRAWING										SCALE 1:6		SHEET 2 OF 2		REV A	