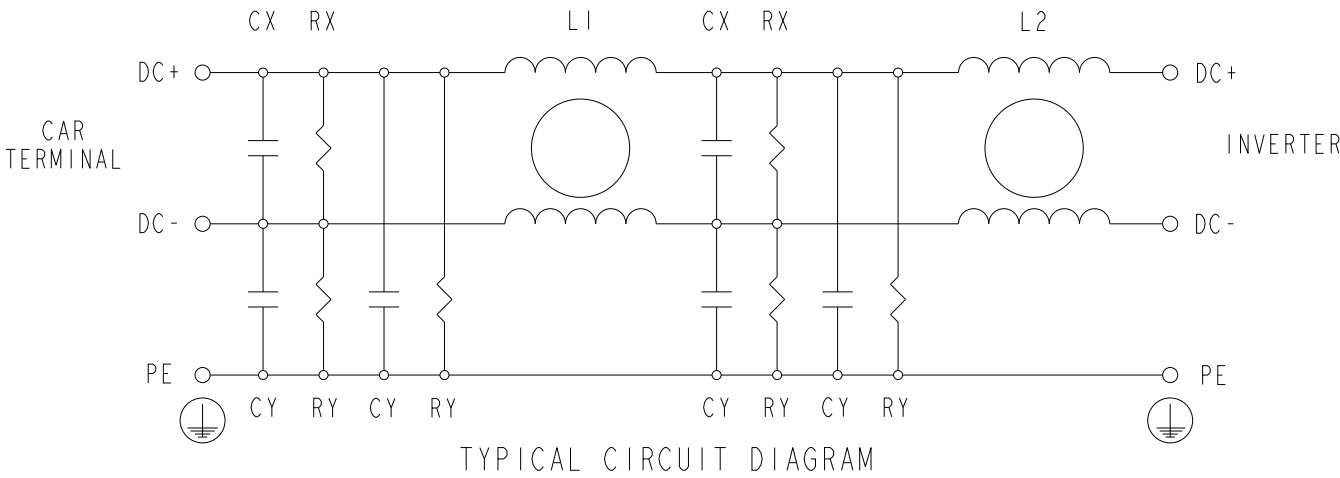


P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASE TO PRODUCTION	04MAY2023	DM	CB



TYPICAL CIRCUIT DIAGRAM

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

1600 EVX C C									
FREQUENCY (MHz)	0.01	0.05	0.15	0.5	1	3	5	10	30
COMMON MODE	6	15	20	39	34	27	23	19	37
DIFFERENTIAL MODE	22	35	61	44	42	35	34	31	21

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: 1000nF +/-20%

LINE TO LINE, NOMINAL: 4.4μF +/-20%

DISCHARGE RESISTOR

LINE TO GROUND: 7.14MΩ 2W

LINE TO LINE : 15MΩ 2W

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

HIPOT RATING (ONE MINUTE)


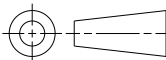
LINE TO GROUND: 6000 VDC FOR 2 SECONDS

LINE TO LINE: 3600 VDC FOR 2 SECONDS

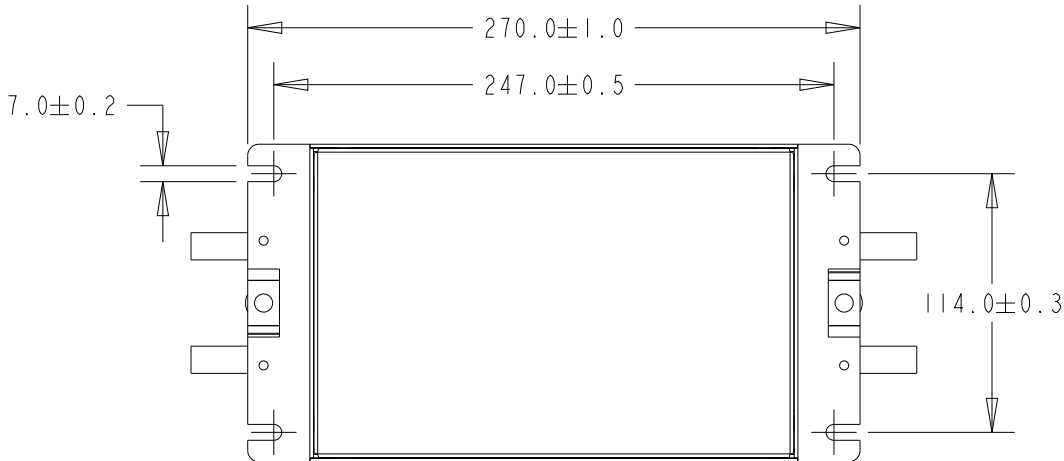
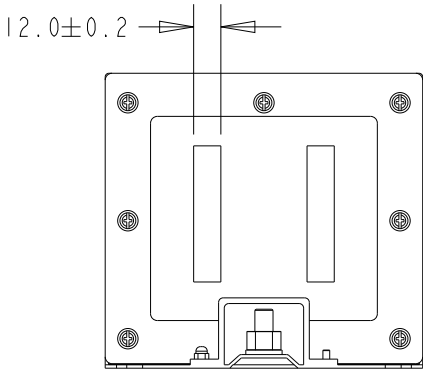
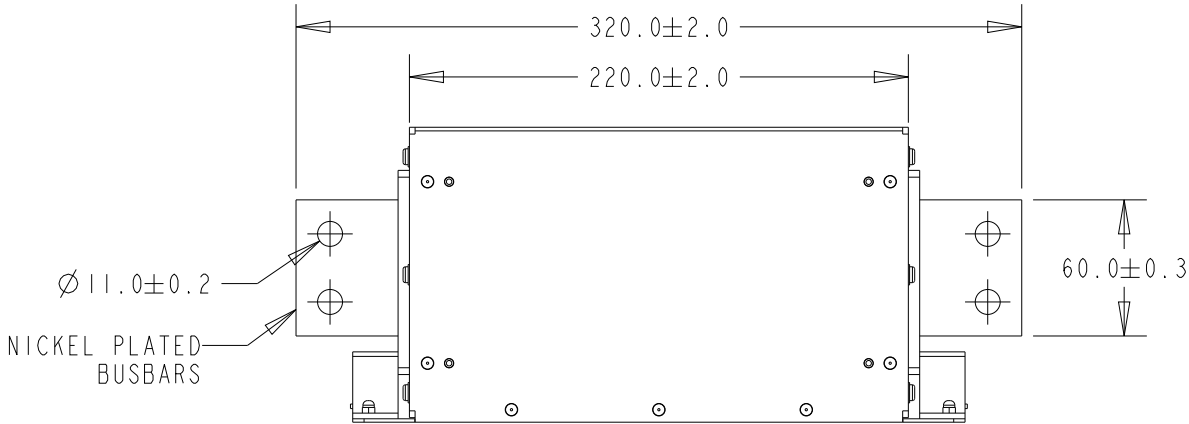
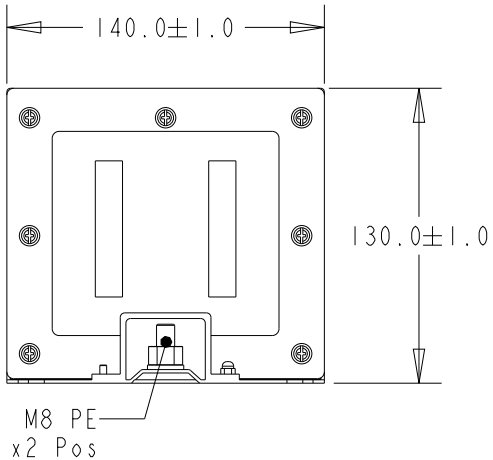
FILTER APPROVAL

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

TE PN	CATALOG NO.	Y CAPACITANCE (nF)
2-2443555-3	1600 EVX C C	1000

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


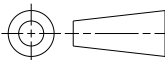
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



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