



- NOTES:
- 1) BUILD BOARD USING THE FOLLOWING QPL BOM:
BOM1247720revB.xls .
 - 2) THIS BOM IS LOCATED ON THE TENNANT ELECTRICAL ENGINEERING WEBSITE.
 - 3) WORKMANSHIP STANDARD, SOLDERING AND ELECTRICAL CONNECTIONS PER:
IPC-J-STD-001D OR LATEST REVISION - CLASS 2.
 - 4) APPLY TWO LABELS ON THE TOP SIDE OF THE PCB WITH THE FOLLOWING INFORMATION:
LABEL #1: TENNANT PART # WITH CURRENT REVISION:
1247720-E. (SHOULD MATCH THIS DRAWING.)
LABEL #2: MANUFACTURER SERIAL NUMBER WITH BAR CODE FOR TRACEABILITY.
 - 5) ICT AND FUNCTIONAL TESTING IS REQUIRED FOR EACH BOARD.
 - FUNCTIONAL TEST PER SPEC "FCT REV 1 MAKO DC_DC BOARD"
 - CONTINUITY TEST BETWEEN HEATSINK AND TP3 (GROUND -COMMON)
PASS = OPEN
FAIL = ANY MEASURABLE RESISTANCE
 - 6) ASSEMBLY TO BE MANUFACTURED PER RoHS/LEAD FREE STANDARDS.
 - 7) REFER TO THE GERBER FILES FOR PCB MANUFACTURING NOTES.
 - 8) THIS ASSEMBLY REPLACES 1058963.
 - 9) DIMENSIONS FOR REFERENCE ONLY.
 - 10) APPLY NON-CORROSIVE PCB SAFE RTV AROUND C1-C6, C9-C14 AND L10-L12. MOMENTIVE RTV-108 OR EQUIVALENT. MINIMUM BEAD DIAMETER = 3 MM.
 - 11) TORQUE THE (8) M3 SCREWS (ITEM #4) TO 43-56 Ncm.

BOM FOR REFERENCE ONLY. SEE NOTE #1 FOR COMPLETE QPL BILL OF MATERIAL.

ITEM NO.	QPL BOM NUMBER	DESCRIPTION	QTY.
1	Q25094-001	CIRCUIT BOARD, PCB (SEE NOTE #1)	1
2	1247727	HEAT SINK	1
3	1247722	SIL PAD	1
4	SEE QPL BOM	SCREW, PAN, PHL, M3 X 0.50 X 6, 4.8. (SEE NOTE #10)	8

MATERIAL SPECIFICATIONS: NOTED		OTHER TREATMENTS AND FINISHES NONE		PAINT - COLOR NONE	
PART NAME: CIRCUITBOARD ASSY [DC TO DC CONV.]		GLOSS	PERFORMANCE	ACCEPTANCE	

CHANGED BY: PAUL HENDERSON		DATE: 12/16/2019	
MDR: STACY GAHLON		12/09/2019	
DES: DAN WORKMAN		04/11/2014	

REV	ECO
00	32407

WELDING NOTATION IN ACCORDANCE WITH AWS A2.4-98		
UNLESS OTHERWISE SPECIFIED DIMENSION TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-2009 ALL UNTOLERANCED DIMENSIONS ARE BASIC AND CONTROLLED BY:		
X.X	±0.8	±[.03]
X.XX	±0.25	±[.010]
X.XXX	±0.125	±[.0049]
ANGLES	±0.5°	

GENERAL NOTES	
PRIMARY DIMENSIONS ARE METRIC, REFERENCE DIMENSIONS WITH BRACKETS ARE INCH. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES.	
PROPRIETARY INFORMATION	
MAY NOT BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY.	
SHEET 1 OF 1	

DWG C SIZE	PART NUMBER 1247720