

1. Pin out

#	Function
1	-Vin
2	+Vin
3	-Vout
4	S/D (on/off)
5	+Vout

2. Electrical Specifications per MIL-STD-1275A

- Input Working Voltage: 12V To 33V
- Input Transient Voltage: +100V@50msec per MIL-STD-1275A/B/D
±250Vpk@50µsec@15mj per MIL-STD-1275A/B/D
Vo=Vin - V dropout (11V min to 36Vmax)
- Output Working Voltage: 33V To 37V@50msec
- Output Transient Working Voltage: 20A max.
- Working Current: 1V@20A
- Input to Output Voltage Dropout: 100mV@0.5A
0.6V@12A
- Power Dissipation: 20W max@20A
10W@10A
- Transient Power Dissipation: 2000W@50msec
- Shut Down: "0" Enabled
- Insulation:
 - Input to Chassis: 1500Vdc@1sec
 - Output to Chassis: 1500Vdc@1sec
- Quiescent Current: 20mA@ Vin=24V
- Reverse Voltage Protection: 0 To (-36V)
- Response Time: ton=20msec@Vin=0V to Vin=24V

3. Environmental Characteristics

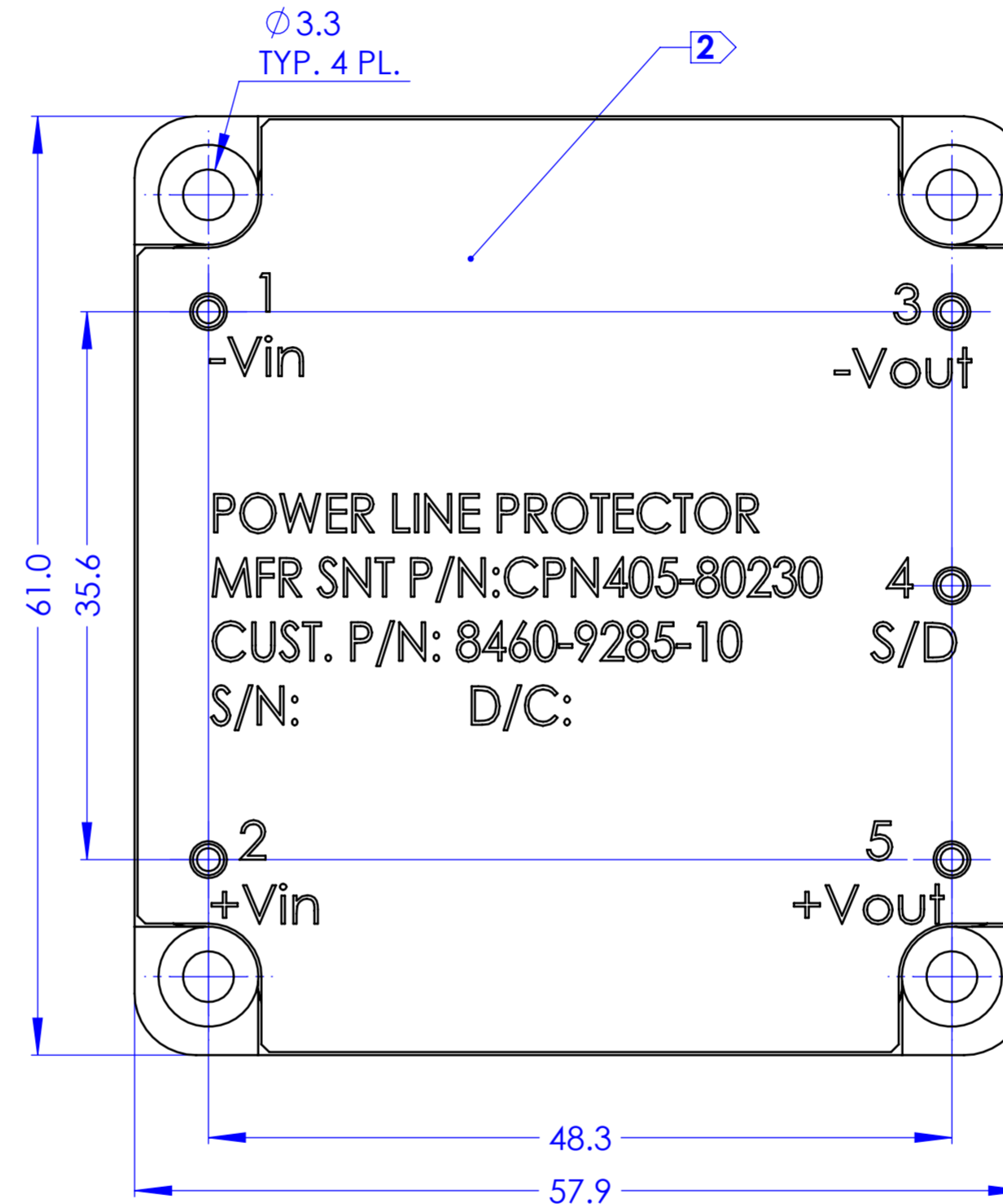
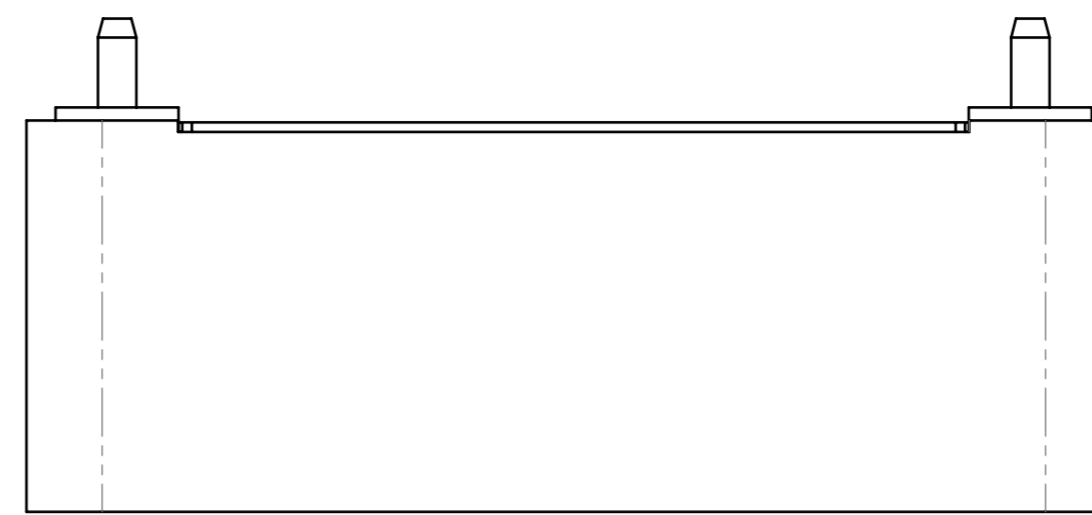
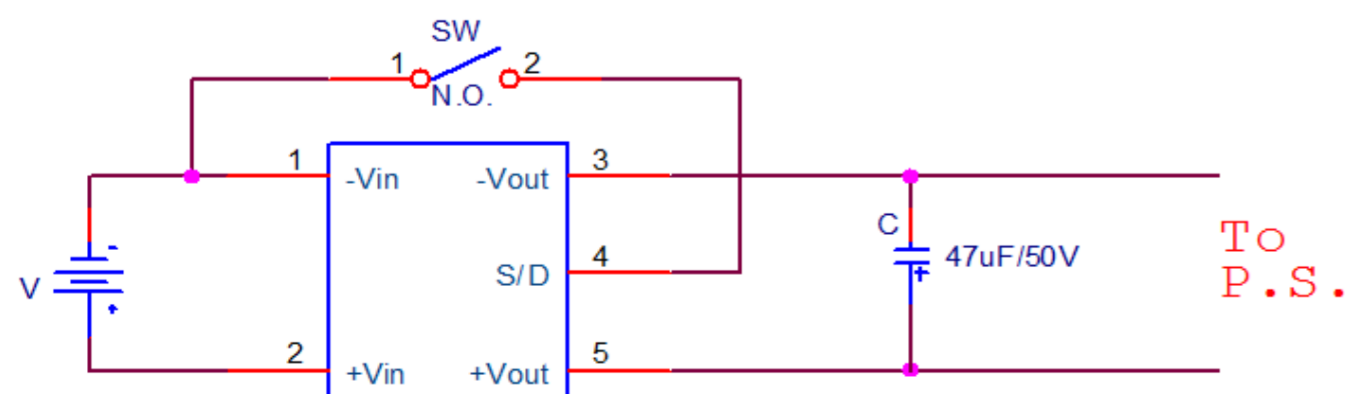
- Working Temperature: (-40)°C – (+80)°C at Baseplate
- Storage Temperature: (-40)°C – (+105)°C Ambient
- Vibration: 6g RMS, 20-2000Hz@1Hr./axys
- Shock: 40g x 9 msec
- MTBF: 50.000 hours for GM (TBR)

4. Applications:

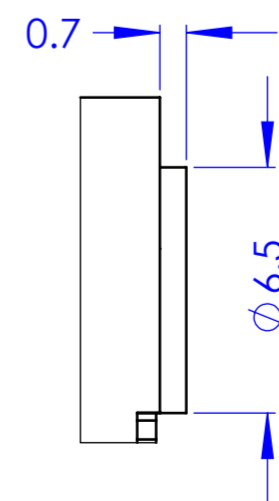
4.1 Assembly Instructions:

- Pin Soldering 260°C@5sec maximum
 - Thread: Torque – 5 in-lbs
 - Mounting: No thermal insulator required
Heat sink recommended
- 47µF/50V external capacitor required (refer to 4.2). The capacitor must be placed as close as possible to the module.

4.2 Electrical Connections



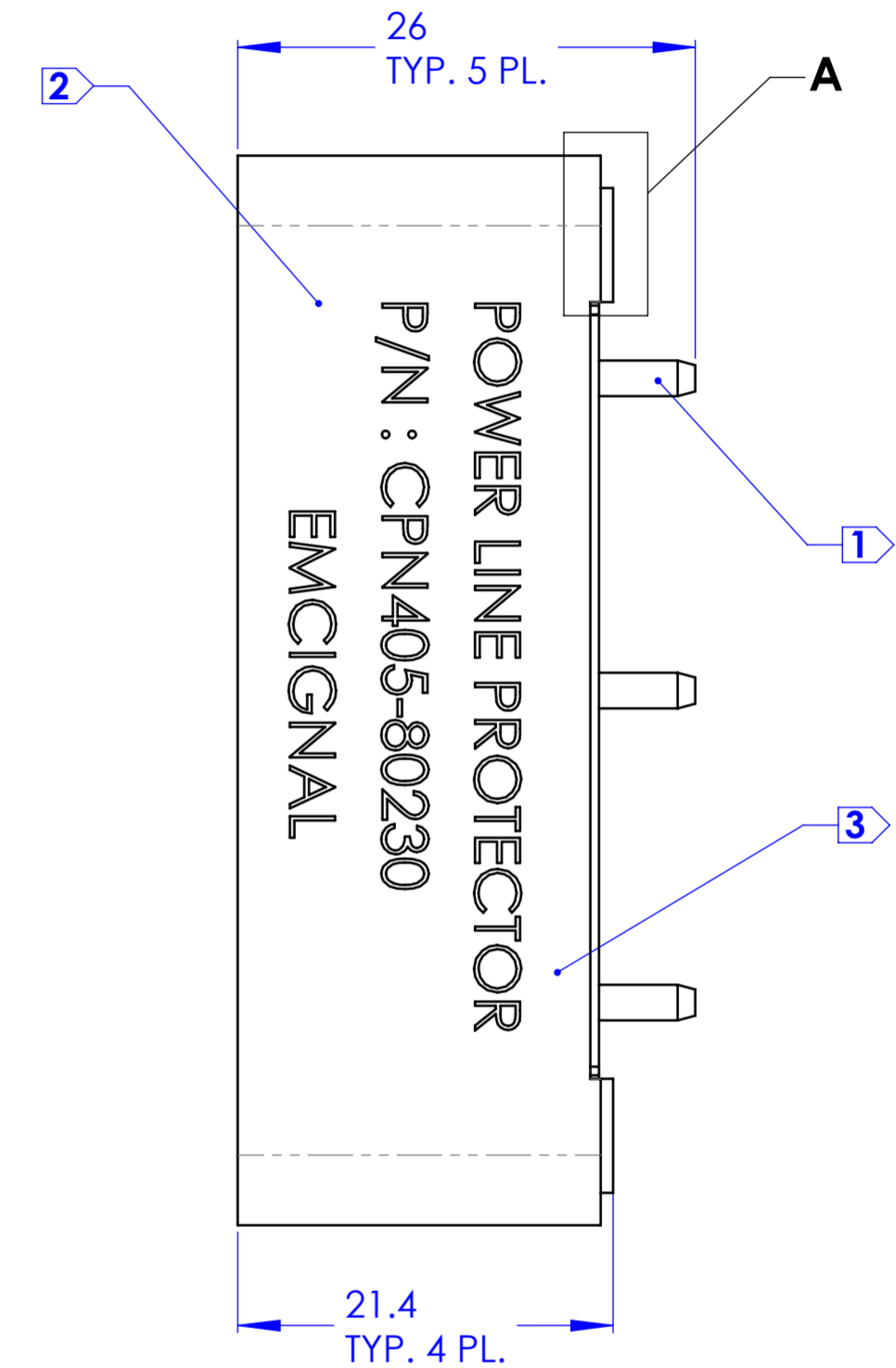
**DETAIL A
SCALE 5 : 1**



REV.	CHANGE ORDER No.	CHANGES	DATE	APPROVAL
X	XXXX	XXXXX	XXXXX	XXXXX

NOTES:

- TERMINALS: COPPER ALLOY, TIN PLATED.
- MARKING: AS SHOWN.
- CASE: ALLUMINIUM, FINISH: NATURAL ALODINE
- HALF BRICK CASE.



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NIR NISSIM		03.06.07	DRAFT	DO NOT MEASURE ON DWG. BREAK SHARP CORNERS. ALL UNDIMENSIONED RADIUS ARE R=	
LEONID BRUSSER		03.06.07	CHECK		
NIR NISSIM		03.06.07	DESIGN	PROJECT 1275 P.PRO.	
SANDLER A.		03.06.07	PA.		
TINO NAXSON		03.06.07	APPR.	MATERIAL SEE NOTES	
NEXT ASSY.	SURF. FINISH				
SURFACE TREATMENTS:				SEE NOTES	
ANGLE PROJECTION	TOLER.	TITLE			
	X. ±0.5	MIL-STD-1275			
	X.X ±0.3	POWER LINE PROTECTOR 24Vdc/20A			
	X.XX ±0.05	SCALE	SIZE		
	ANGLES ±30'		DRAWING NO.		
DIM. IN MM	SHEET 1 OF 1	A2	DD000519		REV. 2

PRODUCT No.: CPN405-80230