



Ironwood
ELECTRONICS



CCC Report For PicoRaptor 1

1.0 SPECIFICATION



Pin Design

Name	PicoRaptor 1
Part Number	P-R109A
Revision	A
Thickness	0.20mm
X-Y Size	1.60mm x 0.97mm
Material	Becu

2.0 SETUP

Set Voltage	10 V
Set Current	50 A
Ambient Temperature	24.2 °C
Temperature Rise	20.0 °C
Final Temperature	44.2 °C
Waiting time	1 minute
Duty Cycle (100%)	100 ms

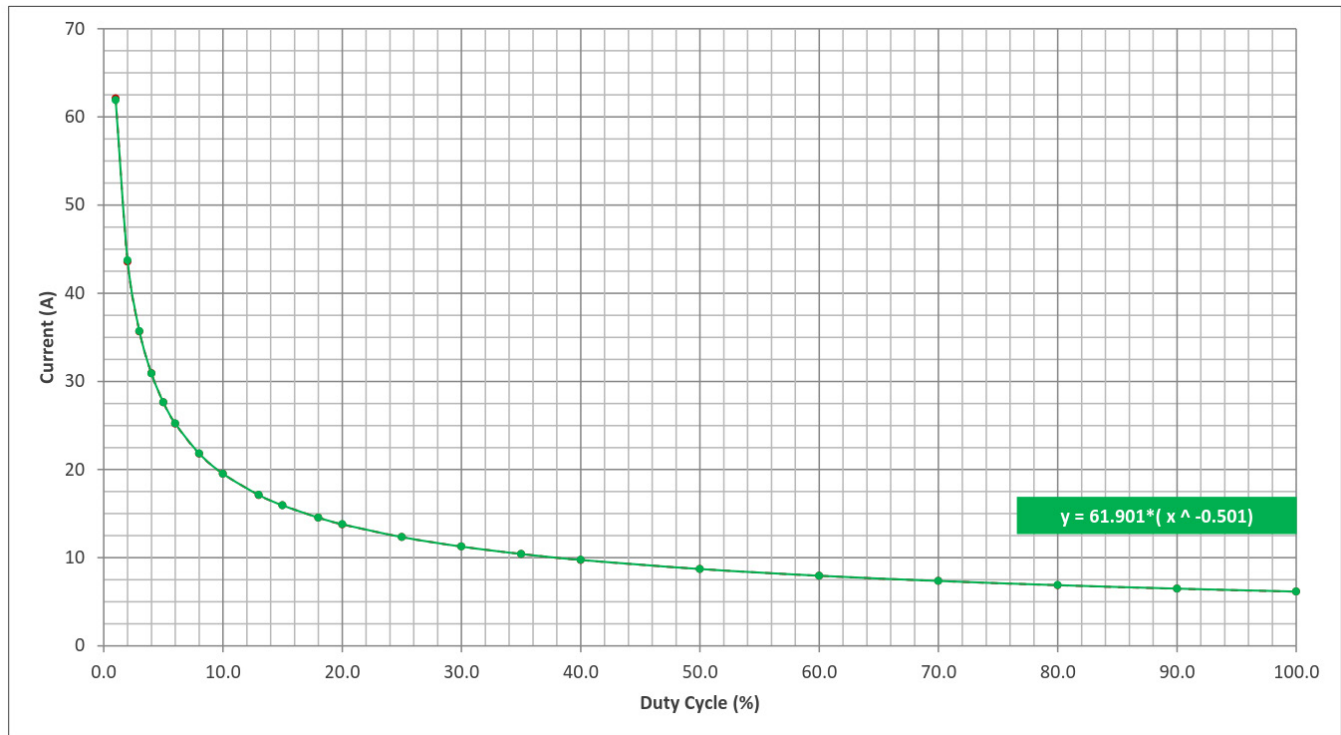
3.0 NOTES

- 1) Current specified are based on 20 °C temperature rise from ambient condition;
- 2) Values listed are for a single contact (qty. 1). If a pair of contacts (qty. 2) is utilized for kelvin (force & sense) connection, utilize values listed in chart. If non-kelvin (force & force) connection, utilize values listed in chart and multiply by 2 (value listed x 2).

4.0 DATA COLLECTION

Duty Cycle (%)	Duty Cycle (ms)	Current (A)	Current Calc. (A)	Temperature (°C)	Temperature (K)	Temp. Calc. (°C)
1.0	1.0	62.10	61.9	44.8	317.95	44.8
2.0	2.0	43.57	43.7	44.8	317.95	44.8
3.0	3.0	35.64	35.7	44.8	317.95	44.8
4.0	4.0	30.92	30.9	44.8	317.95	44.8
5.0	5.0	27.62	27.6	44.8	317.95	44.8
6.0	6.0	25.21	25.2	44.8	317.95	44.8
8.0	8.0	21.80	21.8	44.8	317.95	44.8
10.0	10.0	19.53	19.5	44.8	317.95	44.8
13.0	13.0	17.11	17.1	44.8	317.95	44.8
15.0	15.0	15.94	15.9	44.8	317.95	44.8
18.0	18.0	14.55	14.5	44.8	317.95	44.8
20.0	20.0	13.78	13.8	44.8	317.95	44.8
25.0	25.0	12.34	12.3	44.8	317.95	44.8
30.0	30.0	11.26	11.3	44.8	317.95	44.8
35.0	35.0	10.43	10.4	44.8	317.95	44.8
40.0	40.0	9.74	9.8	44.8	317.95	44.8
50.0	50.0	8.72	8.7	44.8	317.95	44.8
60.0	60.0	7.95	8.0	44.8	317.95	44.8
70.0	70.0	7.36	7.4	44.8	317.95	44.8
80.0	80.0	6.88	6.9	44.8	317.95	44.8
90.0	90.0	6.48	6.5	44.8	317.95	44.8
100.0	100.0	6.15	6.2	44.8	317.95	44.8

5.0 CURRENT (A) VERSUS DUTY CYCLE (%) PLOT



6.0 TEMPERATURE (°C) VERSUS CURRENT (A) PLOT

