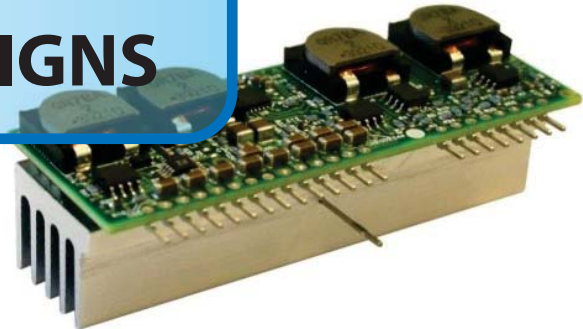


Features:

- ✓ Programmable 2.5V to 5.0V output
- ✓ Soft start circuit
- ✓ Over-voltage protection
- ✓ Over-current protection
- ✓ Differential Remote sense
- ✓ Power Good Signal
- ✓ Output Enable
- ✓ High efficiency
- ✓ "1U" height

**NOT RECOMMENDED
FOR NEW DESIGNS**



This product is not fuse protected. User is responsible for providing system protection. Consult factory for application information.

Input Characteristics	Notes & Conditions *	Min	Typ.	Max	Units
Input Voltage Operating Range		10.8	12.0	13.2	Vdc
Maximum Input Current	5.00Vout @ 55A/10.8Vin		27		A
No-Load Input Current				300	mA
Disabled Input Current				50	mA
Input Reflected Ripple Current	5.00Vout @ 55A/13.2Vin		300		mA p-p
Required Ext. Input Capacitor	OSCON Type or Equivalent	270			µF

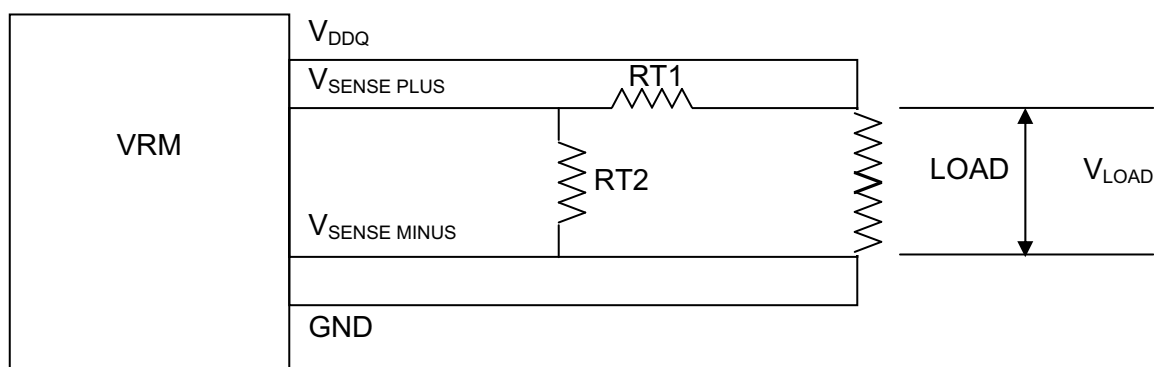
Output Characteristics	Notes & Conditions *	Min	Typ.	Max	Units
Output Voltage Set Point	Programmable	2.3		5.2	Vdc
Output Line Regulation				±0.5	%
Output Load Regulation				±0.5	%
Output Voltage Ripple & Noise	20 MHz Bandwidth		100		mV p-p
Output Current Operating Range		0		55	A
Efficiency @ +12Vin	55A Load 2.5V		90		%
	55A Load 3.3V		91		%
	55A Load 5.0V		92		%
Turn-On Time				10	mS
Remote Sense Compensation				10	%Vo nom
Output Voltage Trim Range		2.3		5.2	V
Required External Output Capacitance		1500		8K	µF

* Note: Vin = 12Vdc, Ta = 25 °C, Airflow = 300 LFM unless otherwise noted. Specifications subject to change without notice.

Protection Characteristics	Notes & Conditions *	Min	Typ.	Max	Units
Output Current Limit Inception	Hiccup Mode	60		75	A
Over Voltage Shutdown	Latching		115		%Vnom
Fusing	Unit is not fused.				

General Specifications	Notes & Conditions *	Min	Typ.	Max	Units
Enable	LOW=Disable			0.8	Vdc
	HIGH=Enable	1.7			Vdc
Storage Temperature		-40		70	°C
Operating Temperature		0		50	°C
Material Flammability	UL 94V-0				
MTBF	Calculated (RAC PRISM @ 50°C)		785		x10 ³ Hrs
Switching Frequency	Per Phase		200		KHz
Dimension	3.0"L x 1.05"W x 1.1"H				

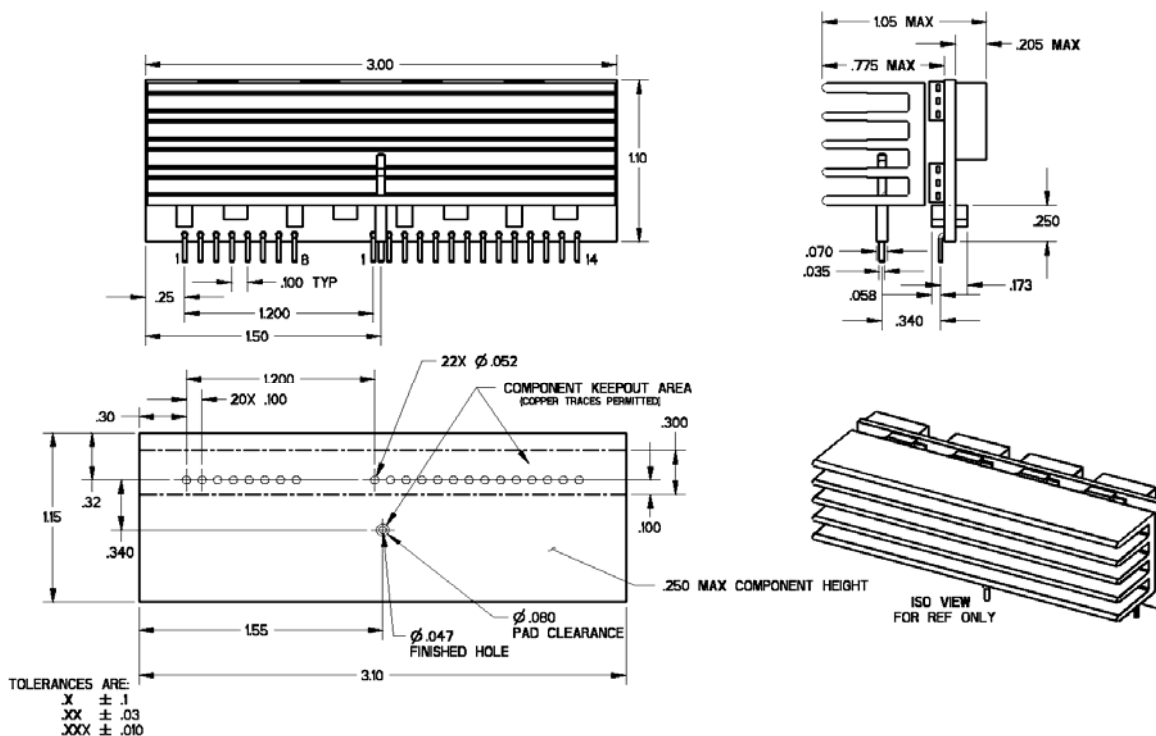
Programming the Output



V_o^* (V)	RT1(Ω)	RT2(Ω)
2.3	499	891
2.4	499	795
2.5	499	717
2.6	499	654
2.7	499	600
2.8	499	555
2.9	499	516
3	499	482
3.1	499	453
3.2	499	426
3.3	499	403
3.4	499	382
3.5	499	363
3.6	499	346
3.7	499	331
3.8	499	316
4	499	291
4.1	499	280
4.2	499	270
4.3	499	260
4.4	499	251
4.5	499	243
4.6	499	235
4.7	499	228
4.8	499	221
4.9	499	215
5	499	209
5.1	499	203
5.2	499	197

* V_o measured at the load side

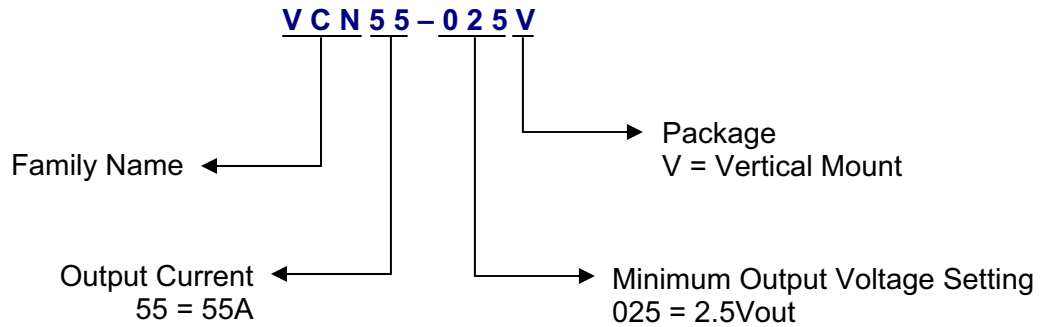
Mechanical Information



Connector J1 Pin Name	Function
1	Power Good
2	Output Enable
3	Sense Minus
4	Sense Plus
5	12Vin
6	12Vin
7	GND
8	GND

Connector J2 Pin Name	Function
1	GND
2	Vo
3	GND
4	Vo
5	GND
6	Vo
7	GND
8	Vo
9	GND
10	Vo
11	GND
12	Vo
13	GND
14	Vo

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