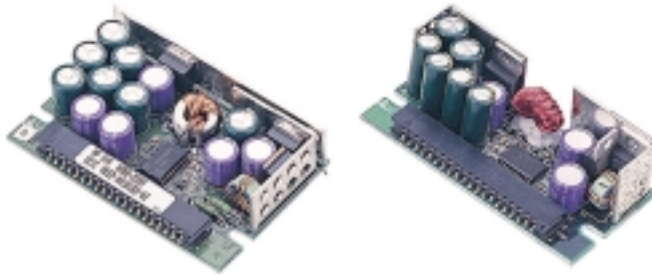


# DC-DC Converters

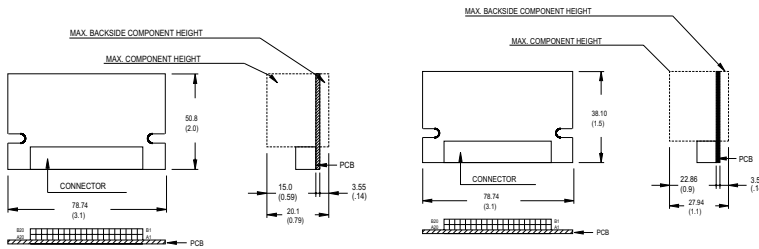


## Intel's VRMs for

**Pentium II, Pentium III, Deschutes, Xeon, Coppermine.**  
**Non-isolated Single Output**



### MECHANICAL DRAWING



Module Pinout Assignment

Pin #	Row A	Row B
1	NC	NC
2	NC	NC
3	NC	NC
4	V <sub>IN</sub>	V <sub>IN</sub>
5	V <sub>IN</sub>	Remote Sense
6	NC	OUTEN
7	VID0	VID1
8	VID2	VID3
9	VID4	PWRGD
10	V <sub>OUT</sub>	GND
11	GND	V <sub>OUT</sub>
12	V <sub>OUT</sub>	GND
13	GND	V <sub>OUT</sub>
14	V <sub>OUT</sub>	GND
15	GND	V <sub>OUT</sub>
16	V <sub>OUT</sub>	GND
17	GND	V <sub>OUT</sub>
18	V <sub>OUT</sub>	GND
19	GND	V <sub>OUT</sub>
20	V <sub>OUT</sub>	GND

Module Pinout Assignment

Pin #	Row A	Row B
1	NC	NC
2	NC	NC
3	NC	NC
4	V <sub>IN</sub>	V <sub>IN</sub>
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13	GND	V <sub>OUT</sub>
14	V <sub>OUT</sub>	GND
15	GND	V <sub>OUT</sub>
16	V <sub>OUT</sub>	GND
17	GND	V <sub>OUT</sub>
18	V <sub>OUT</sub>	GND
19	GND	V <sub>OUT</sub>
20	V <sub>OUT</sub>	GND

### SPECIAL FEATURES

- Intel 8.2, 8.3 & 8.4 VRM's for Pentium II / III processors
- 5V input version, 12V input version and universal input version
- High efficiency up to 85%
- VID output programmable

### GENERAL SPECIFICATION

- Output Voltage Accuracy  $\pm 2\%$
- Input Filter  $\pi$  Filter
- Switching Frequency 200 KHz Typ.
- Short Circuit Protection Auto-recovery mode
- Over Voltage Protection Latch mode
- Operating Temperature 0 to +60 °C Ambient
- Cooling Forced- Air Convection, 100 LFM.
- Size 3.1"W x 1.5"H x 1.1"D

Model	Intel spec.	Input Voltage Vdc	Output Voltage Vdc	Output Current A	Features				Case
					Fuse Protection	Current Sharing	Crowbar OVP	Remote Sense	
05S2020U1	VRM 8.2/8.3/8.4	5 (Universal)	1.3~3.5	0 - 20				V	U1
05S2018UF		5 (Universal)	1.3~3.5	0 - 20	V	V	V	V	U1
05S2020B		5	1.3~3.5	0 - 20	V		V	V	Note3
12S2020E2		12	1.3~3.5	0 - 20	V		V	V	U1