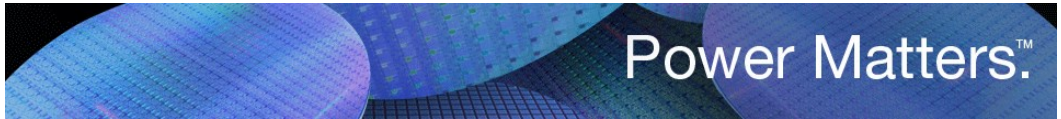


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## MHP8565AM-2

**Product Status**  
■ In Production

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The MHP series are non-isolated Point of Load switching regulators for high reliability Military and Space distributed power applications. Fully integrated, these include a buck controller, inductor, and input / output capacitors combined in a single package. They operate from an input voltage of +4.5V to +5.5V (See Note 1), providing step down power conversion to output voltages as low as 0.5V or lower (See Note 2). Operating features include output voltage adjust, output current limit, enable, external synchronization and soft start. Some models can also be setup in a parallel configuration to increase output current capability and reduce ripple on the input and output supplies. Careful design and layout ensure excellent stability, transient response, and low noise operation. Packaged in a compact metal case, it operates over the full -55°C to +125°C temperature range.

Electrical Rating	Symbol	Min	Typ	Max	Unit
Input Voltage (Vdc)	V <sub>I</sub>	4.50			V

Environmental Rating	Symbol	Min	Typ	Max	Unit
TID (kRad)	SI			100.00	kRad

Maximum Electrical Rating	Symbol	Min	Typ	Max	Unit
Operating Temperature (oC)	T <sub>OP</sub>	-55.00		125.00	°C
Storage Temperature (°C)	T <sub>STG</sub>	-65.00		150.00	°C

This part can be found in the following product categories:

- [High-Reliability](#) ▶ [Radiation Hardened Devices](#) ▶ [Rad-Hard Power Management](#) ▶ [Rad-Hard Non-Isolated Switching Regulators](#)
- [Power Management](#) ▶ [Switching Regulators](#) ▶ [DC-DC Power Modules/Hybrids](#)
- [High-Reliability](#) ▶ [Radiation Hardened Devices](#) ▶ [Rad-Hard Power Management](#) ▶ [Rad-Hard DC to DC Converters](#)