



Power converters for **HARSH ENVIROMENT**



10W DC-DC Converter OHD10-5-1

Product Features

- Fully enclosed and conformal coated for harsh environment
- Conduction cooling (Base plate)
- Five outputs in two Isolated groups (IN-OUT, IN-GND, OUT-OUT :100VDC)
- No external EMI filter required
- Fully protected for Overload /Short, Over-voltage and Over-Temperature
- High Altitude

SPECIFICATIONS:

Input characteristics					
Input voltage (VDC) (*1)	18 ~ 36				
Reverse Polarity Protection	✓				
Under Voltage Protection	Unit protects itself (no damage) below 15VDC				
Over Voltage Protection	Unit protects itself (no damage) above 42VDC				
Output characteristics					
Output current (VDC) (*2)	5 (A)	5 (B)	3.3 (B)	2.5 (B)	1.25 (B)
Output current (ADC)	0.5	0.15	1.5	0.15	1.0
Line, Load & Temperature regulation	4.9~5.1	4.9~5.1	3.25~3.35	2.45~2.55	1.2~1.3
Output ripple (mV pk-pk)	50				
Current Limit, Hiccup (% of rated current)	20-150% (Auto Recovery)				
Over Voltage Protection	Each channel has separate OVP				
Over Temperature Protection	Shutdown at baseplate temperature 105°C AUTO Recovery at baseplate temperature 95°C (+/-5 °C)				
Environmental/Reliability					
Operating Temperature	-55°C - +85°C Base plate				
MTBF	150,000 Hours				
Altitude	150,000 ft				
Mechanical					
Size	2" x 1.77" x 0.58" (51mm x 45mm x 14.8mm)				
Weight	0.22Lbs (100gr)				
Cooling	Base Plate				

NOTE:

(*1) 80VDC for 0.1sec, 100VDC for 50msec

(*2) A,B - Separate grounds

Connector 21pin (MDA221SCBRWG2):

PIN #	FUNCTION	GROUP
20,21	VIN	INPUT
10,11	RTN	INPUT
1,2	3.3V/1.5A	B
3	+5V/0.15A (A)	B
5	+2.5V/0.15A	B
6,7,17,18,19	RTN	B
12,13	+1.25V/1A	B
4,16	+5V/0.5A	A
14,15	RTN	A
8,9	N/A	