

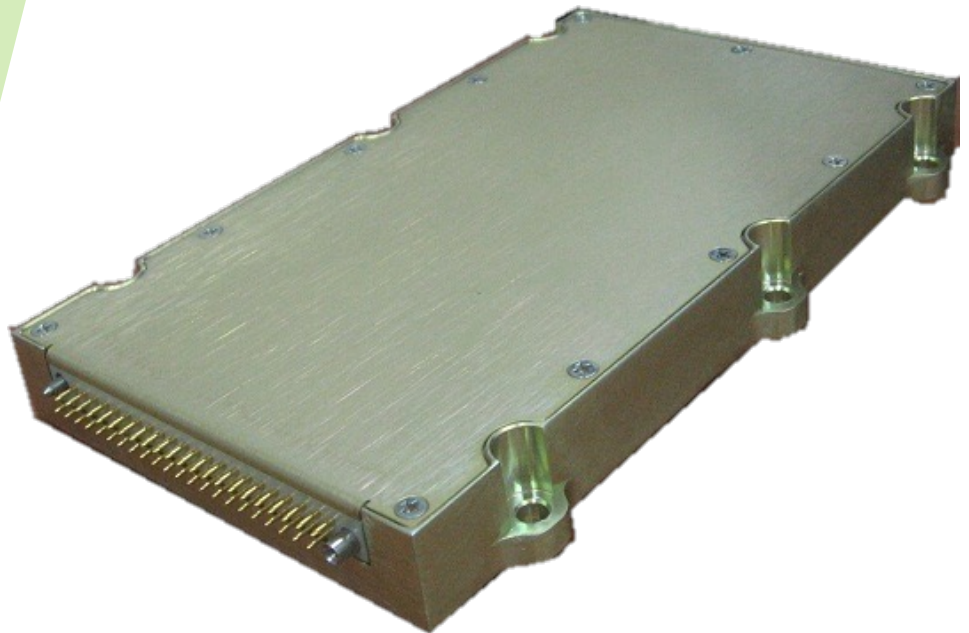


OHM
POWER
SOLUTIONS

M70FN

77Watt

Five Isolated Outputs
DC/DC Converter



Features:

- Designed to meet MIL-STD-1275B
- High Efficiency – up to 88%
- Fully protected for Over Load/Short, Over-voltage and Over-Temperature
- Five isolated outputs
- Base Plate cooling
- No external EMI filter needed

Typical applications:

- Military
- Ruggedized
- Telecom
- Industrial





General specification	
DC Input	
Input voltage range	16-33V _{DC}
Input Per MIL-STD-1275B	Including 100V for 50ms
Protection	Reverse Polarity Protection
DC Output	
Output voltage / Current	See table below
Line Load & Temperature regulation	< +/-2%
Current limit on each output	115% - 145% of rated current
Protection	Over-Voltage Protection on each output - Non-latch type
Isolation	
Input to Output:	100 V _{DC}
Input to Case:	100 V _{DC}
Output to Case:	100 V _{DC}
Interface	
Control Signals	TTL logic enable
Inhibit Signals	ON/OFF = Open, P.S. is OFF . ON/OFF = GND (-2V ÷ +2V) P.S. is ON (GND is isolated).
TTL level	"0" < 0.7V, 5V > "1" > 2.4V. Gnd / Open – Gnd < 0.7V, Open > 2V.
External Sync	Optional
Environmental	
Operating Temperature	–40°C to +80°C Base plate
Over-Temperature protection	to +100°C with auto recovery at +90°C
Shock & Vibration	per MIL-STD-810E
EMI-RFI	per MIL-STD-461E
Mechanical	
Size L x H x W (mm)	140 x 15.5 x 82.5
Weight (grams)	500
Cooling	Base plate
Input / Output connector	44 PIN Airborne P/N WTB44PR7J or Eq.



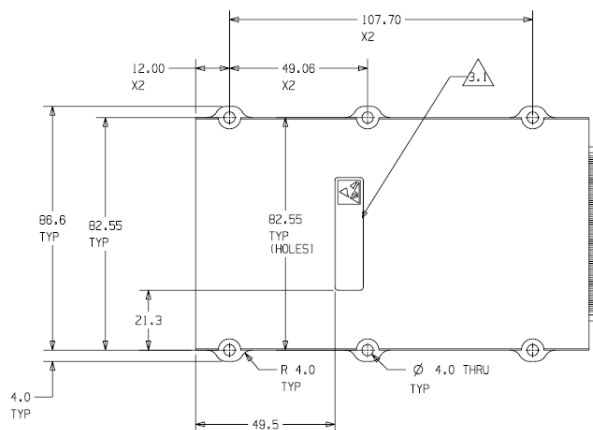
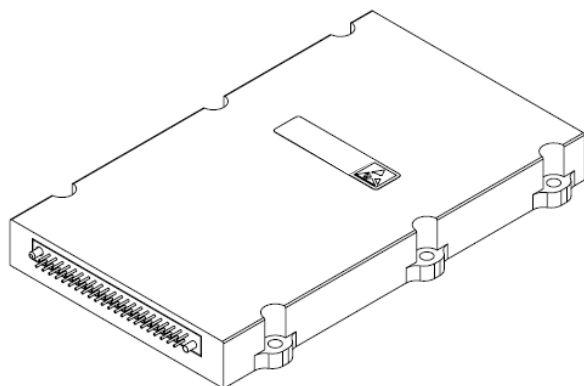
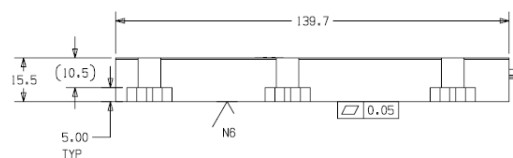
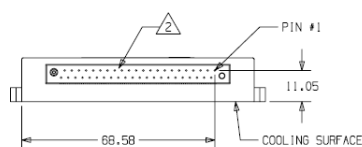
Ordering Information

MODEL #	OUTPUT #	INPUT Voltage (V)	OUTPUT Voltage (V)	OUTPUT Current (A)	POWER (W)	POWER TOTAL (W)	R&N (mV)
M70FN	1	28	3.3	7.1	23.5	77.95	50
	2		5.3	4.3	22.8		50
	3		-5	3	15		50
	4		6	2	12		50
	5		-3.1	1.2	3.7		50

PIN – Assignment

PIN #	PIN Function	PIN #	PIN Function	PIN #	PIN Function
1	VIN	16	+5.3V_OUT	31	Not Used
2	VIN	17	+6V_RTN	32	+3V3_OUT
3	VIN	18	+6V_RTN	33	+3V3_RTN
4	VIN_RTN	19	+6V_RTN	34	+3V3_RTN
5	VIN_RTN	20	+6V_OUT	35	-5V_RTN
6	VIN_RTN	21	+6V_OUT	36	-3V1_OUT
7	GND_EARTH	22	+6V_OUT	37	+5.3V_RTN
8	PS_ON	23	VIN	38	+5.3V_OUT
9	SYNC	24	VIN	39	+6V_RTN
10	+3.3V_OUT	25	VIN	40	+6V_RTN
11	+3.3V_OUT	26	VIN_RTN	41	+6V_RTN
12	+3.3V_RTN	27	VIN_RTN	42	+6V_OUT
13	-5V_OUT	28	VIN_RTN	43	+6V_OUT
14	-3V1_RTN	29	PS_ON_RTN	44	+6V_OUT
15	+5.3V_RTN	30	SYNC_RTN		

Outline Drawing



Note: Specifications are subject to change without prior notice by the manufacturer.
Additional configurations and modifications available. Contact us for more details.