

DC/DC CONVERTER

REGULAR
2WATT



PD20...D-MDR

KEY FEATURES

- * High I/O isolation voltage
- * Single and dual outputs
- * Input filter
- * 50KHz Min. switching frequency
- * Compatible to other manufacturers' products

APPLICATIONS

- * Telecommunications / Lan
- * Industrial machines

ELECTRICAL SPECIFICATIONS

INPUT

- * Input range ----- 4.5 ~ 5.5 VDC, 5 VDC nominal
10.8 ~ 13.2 VDC, 12 VDC nominal
21.6 ~ 26.4 VDC, 24 VDC nominal
43.2 ~ 52.8 VDC, 48 VDC nominal
- * Input filter ----- Pi-network

OUTPUT

- * Output voltage accuracy --- +/- 2% Max.
- * Line regulation (HL - LL) --- +/-0.5% Max.
- * Load regulation (1/10L - FL) --- +/-0.5% Max.
- * Ripple and noise, 20MHz bandwidth --- 100mVp-p Max.
- * Temperature coefficient --- +/-0.03%/°C
- * Short circuit protection --- Current limit protection

GENERAL

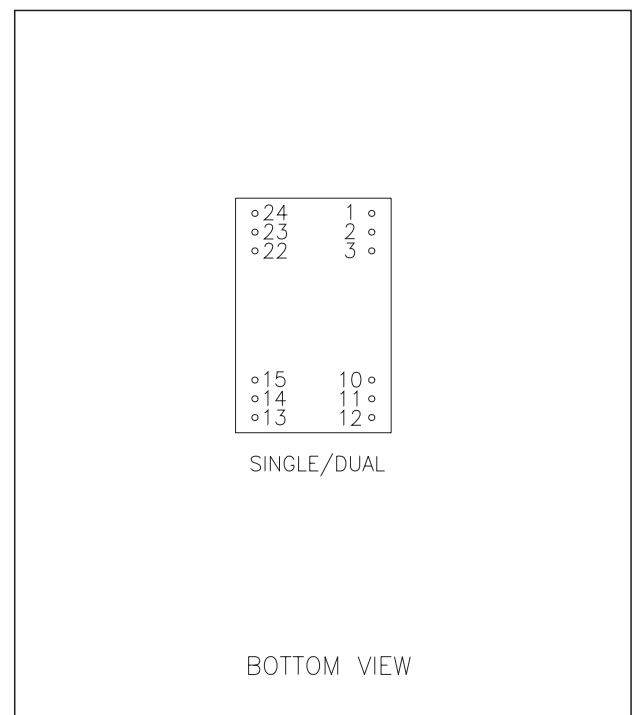
- * Operating frequency ----- 50KHz Min.
- * I/O isolation voltage ----- 1000 VDC
- * I/O resistance ----- 1G ohms Min.
- * Efficiency ----- 58% Min.
- * Isolation Capacitance ----- 80pF Max.

ENVIRONMENTAL

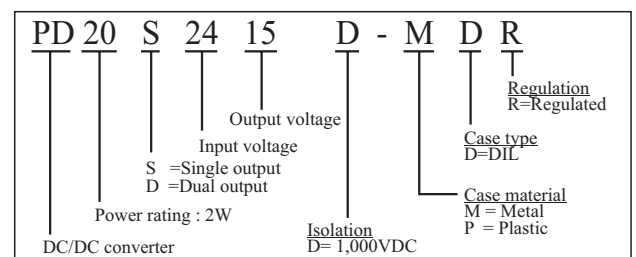
- * Operating temperature range ----- -25 ~ +70°C
- * Storage temperature range ----- -40 ~ +100°C
- * Cooling ----- Free air convection

All specifications typical at nominal line, full load, and 25°C unless otherwise noted.

PIN ASSIGNMENT



ORDERING INFORMATION



INPUT / OUTPUT SPECIFICATION

TYPE PD	Input Voltage(VDC)	Input Current (mA)		Output Voltage(VDC)	Output Current (mA)
		No load	Full load		
PD20S0505D-MDR	4.5 ~ 5.5	40	635	5	400
PD20S0509D-MDR	4.5 ~ 5.5	40	635	9	222
PD20S0512D-MDR	4.5 ~ 5.5	40	615	12	167
PD20S0515D-MDR	4.5 ~ 5.5	40	625	15	133
PD20D0505D-MDR	4.5 ~ 5.5	40	645	± 5	± 200
PD20D0512D-MDR	4.5 ~ 5.5	40	615	±12	± 84
PD20D0515D-MDR	4.5 ~ 5.5	40	625	±15	± 67
PD20S1205D-MDR	10.8 ~ 13.2	15	273	5	400
PD20S1209D-MDR	10.8 ~ 13.2	15	265	9	222
PD20S1212D-MDR	10.8 ~ 13.2	15	252	12	167
PD20S1215D-MDR	10.8 ~ 13.2	15	242	15	133
PD20D1205D-MDR	10.8 ~ 13.2	15	273	± 5	± 200
PD20D1212D-MDR	10.8 ~ 13.2	15	252	±12	± 84
PD20D1215D-MDR	10.8 ~ 13.2	15	242	±15	± 67
PD20S2405D-MDR	21.6 ~ 26.4	10	132	5	400
PD20S2409D-MDR	21.6 ~ 26.4	10	126	9	222
PD20S2412D-MDR	21.6 ~ 26.4	10	121	12	167
PD20S2415D-MDR	21.6 ~ 26.4	10	121	15	± 133
PD20D2405D-MDR	21.6 ~ 26.4	10	132	± 5	± 200
PD20D2412D-MDR	21.6 ~ 26.4	10	121	±12	± 84
PD20D2415D-MDR	21.6 ~ 26.4	10	121	±15	± 67
PD20S4805D-MDR	43.2 ~ 52.8	6	66	5	400
PD20S4809D-MDR	43.2 ~ 52.8	6	63	9	222
PD20S4812D-MDR	43.2 ~ 52.8	6	60	12	167
PD20S4815D-MDR	43.2 ~ 52.8	6	60	15	133
PD20D4805D-MDR	43.2 ~ 52.8	6	66	± 5	± 200
PD20D4812D-MDR	43.2 ~ 52.8	6	60	±12	± 84
PD20D4815D-MDR	43.2 ~ 52.8	6	60	±15	± 67

NOTES: * Specifications are for convection rating unless otherwise stated.
 * Detailed engineering specification of each model is available for inquiry.
 * Specifications subject to change without notice.

MECHANICAL DRAWING

