5-6 WATT 4:1 WIDE INPUT RANGE DC/DC POWER MODULES

(Rectangle Package)

FEATURES

- 5.0 to 6.0 Watt Isolated Output
- 4:1 Wide Input Range
- High Conversion Efficiency
- Continuous Short Circuit Protection

GENERAL SPECIFICATIONS

- Efficiency ..... Per Table
- Switching Frequency ..... 200KHz Min.
- Isolation Voltage: ..... 3K Vdc Min.
- Operating Temperature ..... -25 to +75°C
  Derate Linearly to no load @ 100°C max.
- Case Material:
  3K Vdc.....Non-Conductive Black Plastic
  1.5K Vdc .....Black coated copper with non-conductive base

INPUT SPECIFICATIONS

- Voltage ..... 24, 48 Vdc
- Voltage Range ..... 9-36 & 18-72Vdc
- Input Filter ..... Pi Type

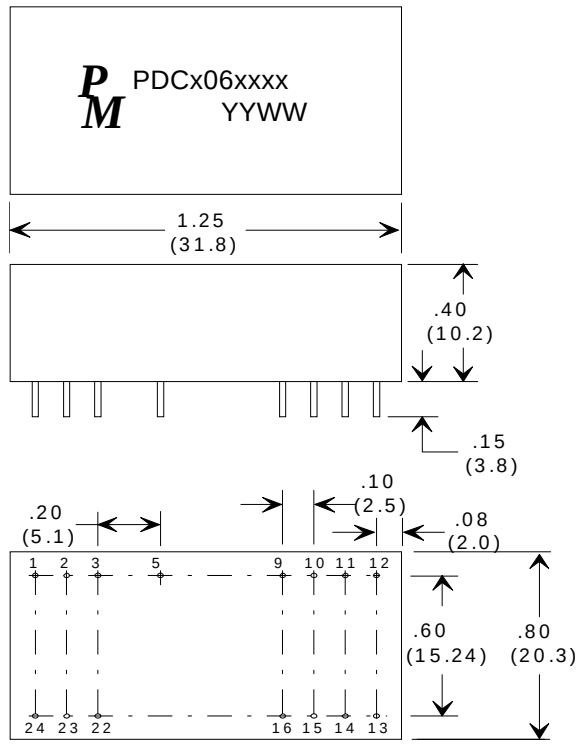
OUTPUT SPECIFICATIONS

- Voltage ..... Per Table
- Initial Voltage Accuracy ..... ±1% typ
- Voltage Stability ..... ±0.05% max
- Ripple&Noise 100/150mVp-p
- Load Regulation (10 to 100% Load)
  Single Output Units: ±0.5%
  Dual Output Units: ±1.0%
- Line Regulation ..... ±0.5% typ.
- Temp Coefficient ..... ±0.05% /°C

PACKAGE

PIN ASSIGNMENTS

PHYSICAL DIMENSIONS
DIMENSIONS IN inches (mm)



Note: Pin size is 0.02" Inch (0.5mm) DIA or 0.02x0.014 Inch

1.5K VDC & 3K VDC		
PIN #	SINGLE OUTPUT	DUAL OUTPUTS
1	NP	NP
2	-INPUT	-INPUT
3	-INPUT	-INPUT
5	NP	NP
9	NC	COMMON
10	NC	NC
11	NC	-OUTPUT
12	NP	NP
13	NP	NP
14	+OUTPUT	+OUTPUT
15	NC	NC
16	-OUTPUT	COMMON
22	+INPUT	+INPUT
23	+INPUT	+INPUT
24	NP	NP

*NP-NO PIN
*NC-NO CONNECTION WITH PIN

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ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -25°C TO +75°C

PART NUMBER	INPUT VOLTAGE		OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mAdc)	INPUT CURRENT		TYPICAL EFFICIENCY
	NOMINAL	RANGE			NO LOAD mA	FULL LOAD mA	
PDCS06061Q	24	9-36	5	1000	15	267	78 %
PDCS06062Q	24	9-36	12	470	15	287	82 %
PDCS06063Q	24	9-36	15	400	15	305	82 %
PDCD06061Q	24	9-36	±5	±500	25	267	78 %
PDCD06062Q	24	9-36	±12	±230	25	281	82 %
PDCD06063Q	24	9-36	±15	±190	25	290	82 %
PDCS06071Q	48	18-72	5	1000	7.5	130	80 %
PDCS06072Q	48	18-72	12	470	7.5	143	82 %
PDCS06073Q	48	18-72	15	400	7.5	153	82 %
PDCD06071Q	48	18-72	±5	±500	12	134	78 %
PDCD06072Q	48	18-72	±12	±230	12	141	82 %
PDCD06073Q	48	18-72	±15	±190	12	145	82 %

NOTE:
PDCx06xxxQ : FOR STANDARD PART WITH ISOLATION = 3K VDC
PDCx06xxxK : FOR PART WITH ISOLATION = 1.5K VDC

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