



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



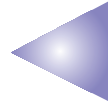
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MT5

5 WATT DC/DC CONVERTER SINGLE & MULTIPLE OUTPUTS



FEATURES

- ▶ 5 SIDED METAL CASE
- ▶ WIDE INPUT RANGE
- ▶ HIGH EFFICIENCY AND RELIABILITY,
UP TO 87%
- ▶ HIGH I/O ISOLATION 1500VDC
- ▶ INPUT FILTER TO MEET EN 55022-A,
FCC-A, CISPR 22-2 CLASS A
- ▶ NO DERATING TO 71°C
- ▶ LOW OUTPUT RIPPLE AND NOISE
- ▶ SHORT CIRCUIT PROTECTION
- ▶ DIRECT PCB-SOLDERING
- ▶ INDUSTRY STANDARD PINOUT (IC-24P)
- ▶ LOW PROFILE, 10mm (0.39") HEIGHT
- ▶ FIVE YEAR WARRANTY

EMI

Complys with: CISPR CLASS A

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage Range..... 2:1 Wide Range Input

OUTPUT SPECIFICATIONS

Ripple Noise..... 150 mVp-p (DC to 20MHZ)
 Line Regulation..... $\pm 0.5\%$ max.
 Line Filter..... Built-in
 Load Regulation..... Single: $\pm 1.0\%$ max. (10% ~ 100%)
 Dual: $\pm 3.0\%$ max. (10% ~ 100%)

GENERAL SPECIFICATIONS

Isolation Voltage
 Primary to Secondary..... 1500 VDC
 Primary to Case..... 750 VDC
 Secondary to Case..... 750 VDC
 MTBF..... >1,000,000 hours
 Isolation Resistance..... INPUT-OUTPUT-CASE 1000M-ohms min.
 (Measured at 500 VDC)
 Short-Circuit Protection..... Continuous

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -25°C ~ +71°C
 Temperature Coefficient..... $\pm 0.05\%$ / °C
 Humidity..... 30%~95% RH
 Storage Temperature..... -25°C ~ +85°C

PHYSICAL SPECIFICATIONS

Case Material.....Nickel-Plated Steel
 Dual In-Line Pin Configuration

Series

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT	EFFICIENCY
MT5-2405SI	24 VDC (18 ~ 36V)	5.1 VDC	1000mA	16mA	83%
MT5-2412SI		12 VDC	500mA	22mA	86%
MT5-2412WI		±12 VDC	±250mA	33mA	85%
MT5-2415WI		±15 VDC	±200mA	35mA	86%
MT5-4805SI	48 VDC (36 ~ 72V)	5.1 VDC	1000mA	10mA	84%
MT5-4812SI		12 VDC	500mA	12mA	87%
MT5-4812WI		±12 VDC	±250mA	14mA	87%
MT5-4815WI		±15 VDC	±200mA	12 mA	87%

SINGLE OUTPUT

2, 3	INPUT - V
22, 23	INPUT + V
9, 10	NC
11, 15	NC
16	OUTPUT - V
14	OUTPUT + V

DUAL OUTPUT

2, 3	INPUT - V
22, 23	INPUT + V
11	OUTPUT - V
14	OUTPUT + V
9, 16	COMMON



NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Avoid sustained operation in overload or dead short conditions.
 Specifications subject to changes without notice.

Dimensions in mm