

MT10

10 WATT DC/DC CONVERTER, SINGLE & MULTIPLE OUTPUTS



FEATURES

- ▶ **RATED 15W AT 24VDC & 48VDC INPUT**
- ▶ **SINGLE AND DUAL OUTPUTS**
- ▶ **HIGH EFFICIENCY AND RELIABILITY**
- ▶ **HIGH I/O ISOLATION 1500VDC**
- ▶ **INTERNAL EMI FILTER**
- ▶ **LOW OUTPUT RIPPLE AND NOISE**
- ▶ **SHORT CIRCUIT PROTECTION**
- ▶ **DIRECT PCB-SOLDERING**
- ▶ **INDUSTRY STANDARD PINOUT (IC-24P)**
- ▶ **LOW PROFILE, 10mm (0.39") HEIGHT**
- ▶ **TWO YEAR WARRANTY**

EMI

Complys with: **CISPR CLASS A**

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage Range9-18 VDC MT10 - 12
 18-36 VDC MT10 - 24
 36-72 VDC MT10 - 48

OUTPUT SPECIFICATIONS

Output Voltage Accuracy..... $\pm 0.5\%$
 Over-Current Protection..... Built-in
 Ripple Noise 150 mVp-p (DC to 20MHZ)
 Line Regulation..... $\pm 0.5\%$ max.
 $\pm 10\%$ max. (MT10 - **03S)
 Line Filter..... Built-in
 Load Regulation..... $\pm 1.0\%$ max. (min-max load) MT10 Single
 $\pm 3.0\%$ max. (min-max load) MT10 Dual
 $\pm 5.0\%$ max. (min-max load) MT10***03S

GENERAL SPECIFICATIONS

Isolation Voltage
 Input-Output..... DC 1500V/ 1min. MT10-48
 Input-Output..... DC 750V/ 1min. MT10-12, MT10-24
 MTBF..... >1.2 million hours
 Isolation Resistance..... Input-Output-Case 1000M-ohms max.
 (Measured at 500 VDC)
 Short-Circuit Protection..... 20mS max.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature $-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$ (Case not to exceed 100°C)
 Temperature Coefficient..... $0.05\%/^{\circ}\text{C}$
 Humidity..... 30%-95% RH
 Storage Temperature..... $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$

PHYSICAL SPECIFICATIONS

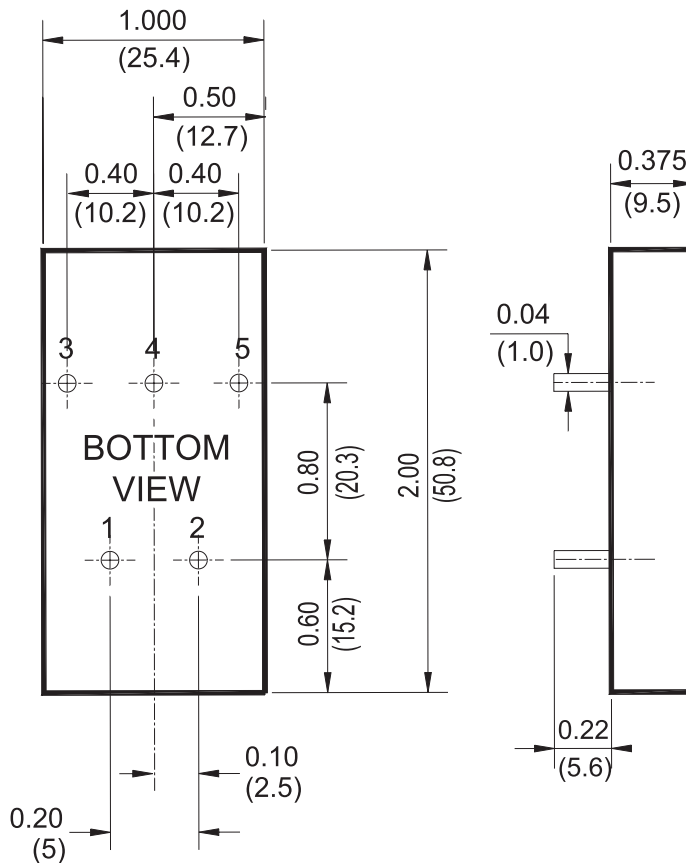
Case Material..... Nickel-Plated Steel
 Dual In-Line Pin Configuration

Series

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		EFFICIENCY AT 100% LOAD (TYP)
			MIN.	MAX.	
MT10-1203S	12 VDC (9 ~ 18V)	3.3 VDC	240mA	2400mA	76%
MT10-1205S		5 VDC	180mA	1800mA	77%
MT10-1212S		12 VDC	85mA	850mA	82%
MT10-1215S		15 VDC	65mA	650mA	80%
MT10-1212W		±12 VDC	±82mA	±410mA	80%
MT10-1215W		±15 VDC	±60mA	±330mA	80%
MT10-2403S	24 VDC (18 ~ 36V)	3.3 VDC	280mA	2800mA	78%
MT10-2405S		5 VDC	240mA	2400mA	78%
MT10-2412S		12 VDC	125mA	1250mA	86%
MT10-2415S		15 VDC	125mA	1000mA	84%
MT10-2412W		±12 VDC	±120mA	±600mA	83%
MT10-2415W		±15 VDC	±100mA	±500mA	84%
MT10-4805S	48 VDC (36 ~ 72V)	5 VDC	240mA	2400mA	82%
MT10-4812S		12 VDC	125mA	1250mA	85%
MT10-4815S		15 VDC	100mA	1000mA	84%
MT10-4812W		±12 VDC	±120mA	±600mA	84%
MT10-4815W		±15 VDC	±100mA	±500mA	85%

Also available in 9-36V & 18-72V Input

PIN-OUT		
PIN	SINGLE	DUAL
1	+VIN	+VIN
2	-VIN	-VIN
3	+VOUT	+VOUT
4	NO PIN	COMMON
5	-VOUT	-VOUT



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.

