



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..... ±0.5%
 Over-Current Protection.....Built-in
 Ripple Noise 150 mVp-p (DC to 20MHZ)
 Line Regulation.....±0.5% max.
 ±10% max. (MT10 - **03S)
 Line Filter..... Built-in
 Load Regulation.....±1.0% max. (min-max load) MT10 Single
 ±3.0% max. (min-max load) MT10 Dual
 ±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-Case1000M-ohms max.
 (Measured at 500 VDC)
 Short-Circuit Protection.....20mS max.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -25°C ~ +75°C (Case not to exceed 100°C)
 Temperature Coefficient.....0.05%/°C
 Humidity..... 30%-95% RH
 Storage Temperature..... -30°C~+100°C

PHYSICAL SPECIFICATIONS

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

