

5 WATT MC/ME/MW SERIES

FEATURES

Industry-standard pinout

Demonstrated MTBF >14 million hours

Operating ambient temperature range: -40° to 85°C

2:1 input voltage range

Complete input and output filtering

Input/output isolation

High efficiency typ. 82%

Output current limiting, unlimited duration

UL, CSA recognized

Within FCC Class B radiated limits



These power modules have remarkably wide 2:1 voltage ranges for inputs up to 72 Vdc, yet they provide precisely regulated dc outputs. They have a wide ambient temperature operating range: -40° to 85°C, without heat sinks. Another feature that adds to the flexibility of these modules is output current limiting for an unlimited duration. Excellent line and load regulation is an additional characteristic of these units.

Highly safe and reliable, these modules allow versatile polarity configurations and grounding connections for your telecommunications, cellular, distributed power architecture, and digital circuitry applications.

SELECTION CHART

Input Vdc		Output Vdc	
18-36 =	C	5 =	A
39.5-60 =	E	12 =	B
36-72 =	W	15 =	C
		±5 =	A J
		±12 =	B K
		±15 =	C L
Part No.	↓	↓	↓
	M <input type="checkbox"/> 0 0 5 <input type="checkbox"/> <input type="checkbox"/>		

We can provide any output voltages between 5 V and 15 V.

TYPICAL INPUT CHARACTERISTICS

Reflected Ripple Current	40 mAp-p
Ripple Rejection	50 dB

TYPICAL OUTPUT CHARACTERISTICS

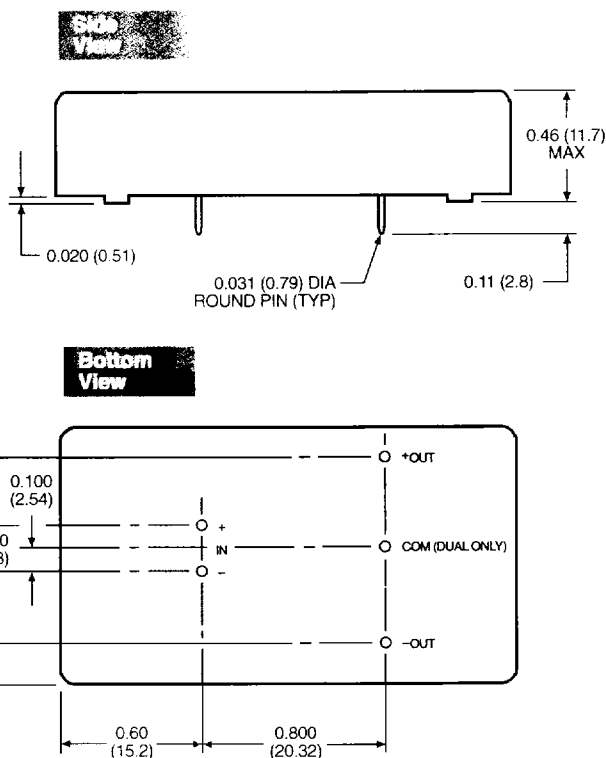
Set Point Accuracy	±2%
Load Regulation	±0.05%
Cross-Regulation (Dual)	±5%
Line Regulation	±0.01%
Output Temperature Drift	±0.01%/°C
Output Ripple	
5 V Output	50 mVp-p, 10 mVrms
12 V-15 V Output	50 mVp-p, 15 mVrms
±12 V, ±15 V Output	100 mVp-p, 50 mVrms
Overvoltage Clamp Set Point	120%
Current Limit Inception	180%
Short Circuit Current	200%
Efficiency	
5 V Output	80%
12 V, ±12 V Output	82%
15 V, ±15 V Output	82%

OPTIONS

Higher accuracy output voltage set point
Metal case with ground pin

PRODUCT ATTRIBUTES

Isolation	
Voltage	500 Vdc
Capacitance	1200 pF
Resistance	>10 MΩ
Operating Ambient Temp.	-40° to 85°C
Storage Temperature	-40° to 100°C
Maximum Weight	1.0 oz (28 grams)
Case Dimensions	2.00" L, 1.10" W, 0.46" H
Demonstrated MTBF	
	(40°C case) 14.06 million hrs.



Pins are solder-plated brass, 0.031 (0.79) DIA.
Dimensions are in inches and (millimeters).

Compare to other 5 watt modules

This module provides:

- Wider operating ambient temperature
- Lower input and output noise
- Higher efficiency
- Smaller footprint

For more specific technical information, call 1-800-526-7819.

Call 1-800-372-2447 to ask for product-specific data sheets:

- **MC005** Data Sheet DS93-168EPS
- **ME005** Data Sheet DS91-005EPS
- **MW005** Data Sheet DS92-035EPS