

# TES2M Series

## 2 Watt Single / Dual Output Models

**TRACO POWER**  
Surface Mount DC/DC Converters



**CLICK HERE TO REQUEST**  
PRICE | DELIVERY | SAMPLE | SUPPORT

### FEATURES:

Dimensions: 0.94 x 0.54 x 0.35"

- Ultracompact SMD package
- I/O isolation 4000 VACrms
- Reinforced insulation rated for working voltage up to 300 VAC
- Industrial and medical safety approval
- Operating temperature range -25 °C to +71°C
- Qualified for leadfree reflow solder process
- Available in tape & reel package
- 3 Year Warranty

### INPUT SPECIFICATIONS:

ISOLATION (I/O)	4000 VACrms, rated for 300 VAC working voltage
SETPOINT ACCURACY	±2% Typical (4% max)
TRIM RANGE	Fixed
REGULATION	Line unregulated / Load 10% (except 5V=12%)
RIPPLE	<150 mV pk-pk (20 MHz BW)
OVER CURRENT	limited 0.5 sec.
SHORT CIRCUIT	Continuous, auto-recovery
OPERATING TEMPERATURE	-25°C to +71°C (above 60°C derating 2.5 %/K)
STORAGE TEMPERATURE	-40 - +125°C
COOLING	Convection
WEIGHT	3.8 g (0.13oz)
PACKAGE	Plastic Surface Mount Package (UL94V-0)
SAFETY	CSA/UL 60950-1, CB Report IEC/EN 60950-1

### MODELS:

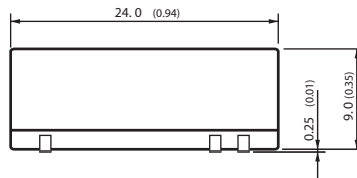
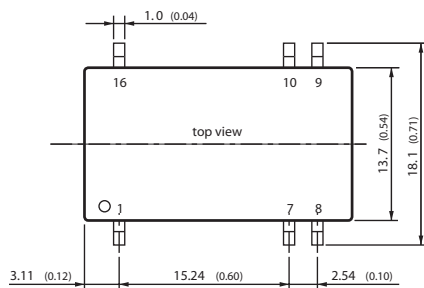
MODELS:	INPUT:	OUTPUT(S):
TES2-0511M	5V ± 10 %	5V .4
TES2-0512M	5V ± 10 %	12V 12V
TES2-0513M	5V ± 10 %	15V 12V
TES2-0522M	5V ± 10 %	+12V .083 -12V .083
TES2-0523M	5V ± 10 %	+15V .066 -15V .066
TES2-1211M	12V ± 10 %	5V .4
TES2-1212M	12V ± 10 %	12V 12V
TES2-1213M	12V ± 10 %	15V 12V
TES2-1222M	12V ± 10 %	+12V .083 -12V .083
TES2-1223M	12V ± 10 %	+15V .066 -15V .066
TES2-2411M	24V ± 10 %	5V .4
TES2-2412M	24V ± 10 %	12V 12V
TES2-2413M	24V ± 10 %	15V 12V
TES2-2422M	24V ± 10 %	+12V .083 -12V .083
TES2-2423M	24V ± 10 %	+15V .066 -15V .066

### DOWNLOADS:

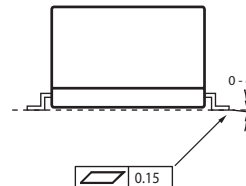
Download Copy of this specification:  
<http://www.powergatellc.com/pdfs/tes2m.pdf>

Detailed Spec:  
<http://www.tracopower.com/products/tes2m.pdf>

### OUTLINE DRAWING:



Dimensions in [mm], ( ) = Inch  
 Tolerances ±0.25 (±0.01)  
 Pin pitch tolerances ±0.05 (±0.002)



Pin-Out		
Pin	Single	Dual
1	-Vin (GND)	-Vin (GND)
7	No con.	No con.
8	No con.	Common
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin