

UM0100 SERIES

1 Watt DC-DC Converters

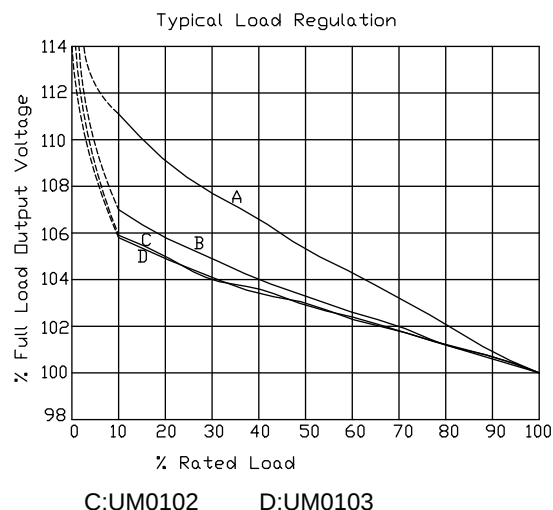
- ◆ Low Profile Molding SMD Package
- ◆ Unregulated Output
- ◆ Very Low Component Height 7.3mm
- ◆ 1000 VDC Isolation Voltage
- ◆ Toroidal Magnetics

- ◆ Single Isolated Output
- ◆ 5V Input
- ◆ 5V,9V,12V and 15V Output
- ◆ Multi Layer Ceramic Capacitors

SPECIFICATIONS:

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

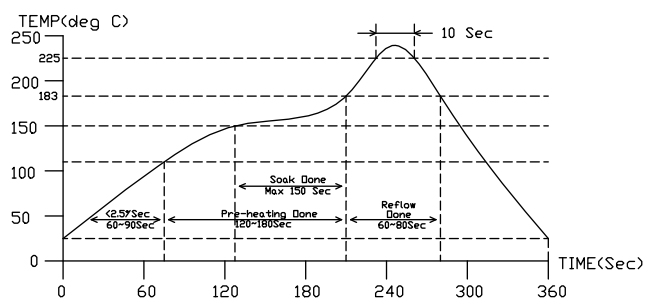
See graph of load regulation.



ELECTRICAL SPECIFICATION

Input Voltage Range	±10%
Input Filter	Capacitor
Output Voltage Accuracy	±5%
Line Voltage Regulation	1.2%/1% of Vin. typ.
Load Voltage Regulation ¹	±10% max.
5V Output Type	12% typ. 14% max.
Ripple and Noise(20MHz BW)	100mV _{p-p}
Efficiency at Full Load	See Table
Isolation Voltage	1000 VDC min.
Operating Frequency	20 KHz min.
Short Circuit Protection	1Sec. typ.
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-55°C to +125°C
Dimensions	12.70*8.10*7.30 mm
Package Material	Plastic Encapsulated
	UL 94V-0
Weight	1.5g

2. Recommended Reflow soldering



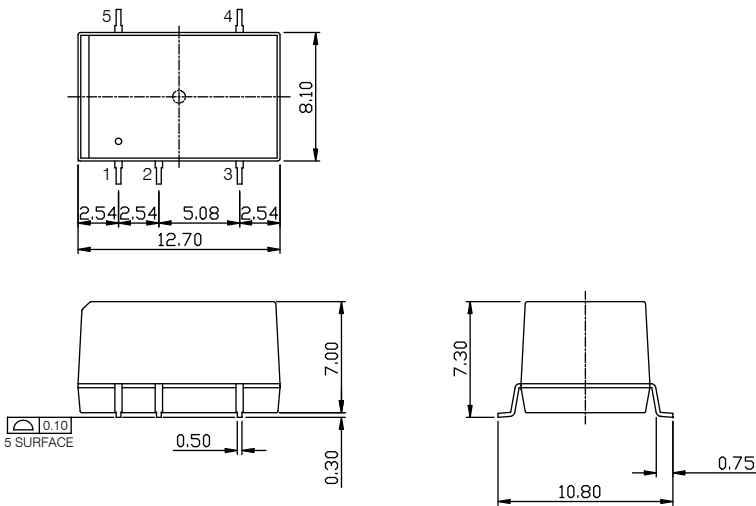
NOTES:

1. Load regulation is for load change from 10% to 100%.

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	% EFF	MAXIMUM ¹ CAPACITIVE LOAD
UM0101	5 VDC	5 VDC	200 mA	70	100uF
UM0107		9 VDC	111 mA	78	47uF
UM0102		12 VDC	84 mA	80	39uF
UM0103		15 VDC	66 mA	82	33uF

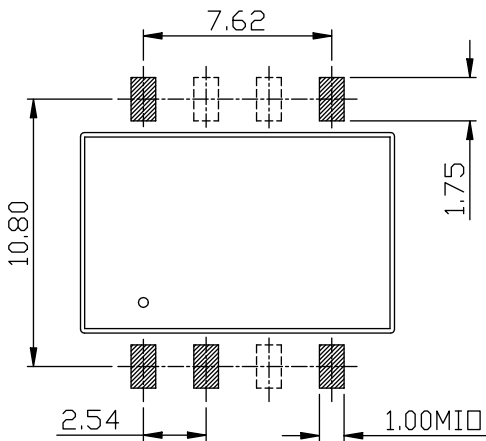
NOTE: 1. Maximum capacitive load across the output ports should not be over following indicated values.

MECHANICAL SPECIFICATIONS



PIN CONNECTIONS	
Pin	Single Output
1	-Vi
2	+Vi
3	-Vo
4	+Vo
5	NC*

RECOMMENDED FOOTPRINT DETAILS



*All dimensions in mm.
Tolerance .xx =± 0.25(mm)