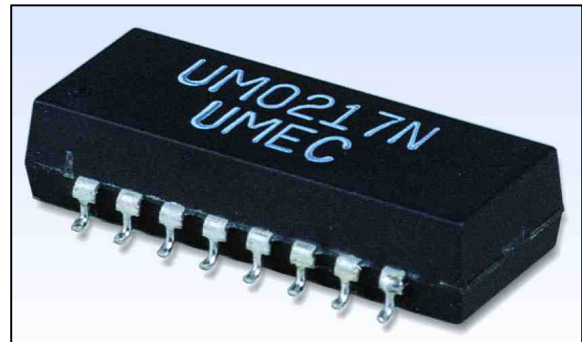


# UM0200 SERIES

## 2 Watt DC-DC Converters

- ◆ Low Profile Molding SMD Package
- ◆ Unregulated Single Output
- ◆ 100% Burn-in at 70°C
- ◆ 500 VDC Isolation Voltage
- ◆ Toroidal Magnetics
- ◆ Single Isolated Output
- ◆ 5V /12V Input,9V Output
- ◆ Multi Layer Ceramic Capacitors
- ◆ Ideal For Mother Board, Pocket
- ◆ LAN, PCMCIA LAN Card Applications



### SPECIFICATIONS

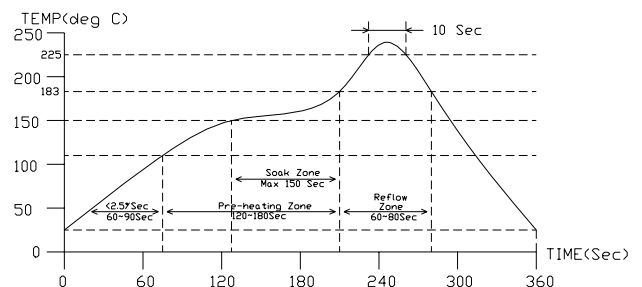
All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

### ELECTRICAL SPECIFICATION

|                                            |                      |
|--------------------------------------------|----------------------|
| Input Voltage Range .....                  | ±10%                 |
| Input Filter .....                         | Capacitor            |
| Output Voltage Accuracy <sup>1</sup> ..... | ±5%                  |
| Ripple and Noise(20MHz BW) .....           | 100mV <sub>p-p</sub> |
| Efficiency <sup>2</sup> .....              | 68% min.             |
| Isolation Voltage .....                    | 500 VDC min.         |
| Operating Frequency .....                  | 80 KHz min.          |
| Short Circuit Protection .....             | short time           |
| Operating Temperature Range .....          | 0°C to +70°C         |
| Storage Temperature Range .....            | -55°C to +125°C      |
| Package Material .....                     | Plastic Encapsulated |
|                                            | UL 94V-0             |

### NOTES

1. Nominal Line at Full Load.
2. Nominal Line at Full Load.
3. Recommended Reflow soldering.



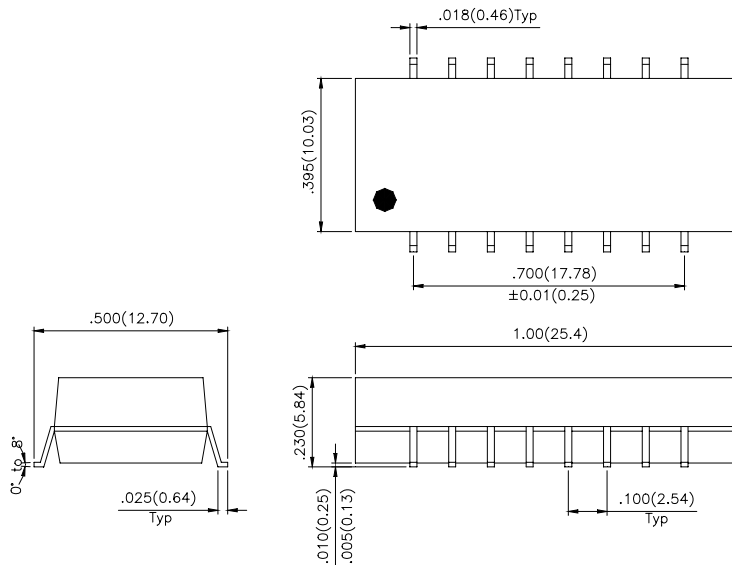
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MICROELECTRONICS**

3,27TH RD., TAICHUNG INDUSTRIAL PARK,  
TAICHUNG, TAIWAN, R.O.C.  
TEL: 886-4-23590096 FAX: 886-4-23590129

| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | % EFF | ENABLE FUNCTION | MAXIMUM <sup>1</sup> CAPACITIVE LOAD (uF) |
|--------------|---------------|----------------|----------------|-------|-----------------|-------------------------------------------|
| UM0207N      | 5 VDC         | 9 VDC          | 200 mA         | 68%   | NO              | 47                                        |
| UM0217N      | 12 VDC        | 9 VDC          | 200 mA         | 68%   | NO              | 47                                        |

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

## MECHANICAL SPECIFICATIONS

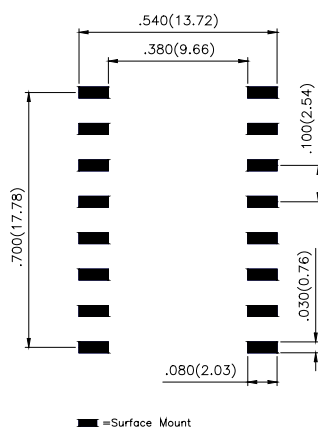


\*Unless otherwise specified, tolerances are  $\pm 0.005$  inches (0.13mm)  
Coplanarity is  $\pm 0.002$ (0.05)

| Pin Connections |               |
|-----------------|---------------|
| Pin             | Single Output |
| 1               | -Vi           |
| 2               | NC*           |
| 3               | +Vi           |
| 4               | NC            |
| 5               | NC            |
| 6               | NC            |
| 7               | +Vo           |
| 8               | -Vo           |
| 9               | NC            |
| 10              | NC            |
| 11              | NC            |
| 12              | NC            |
| 13              | NC            |
| 14              | NC            |
| 15              | NC            |
| 16              | NC            |

## RECOMMENDED FOOTPRINT DETAILS

NC\*: No Connection



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