

## FEATURES

## DESCRIPTION

# OBSOLETE PRODUCT

Last time buy: August 31, 2014.

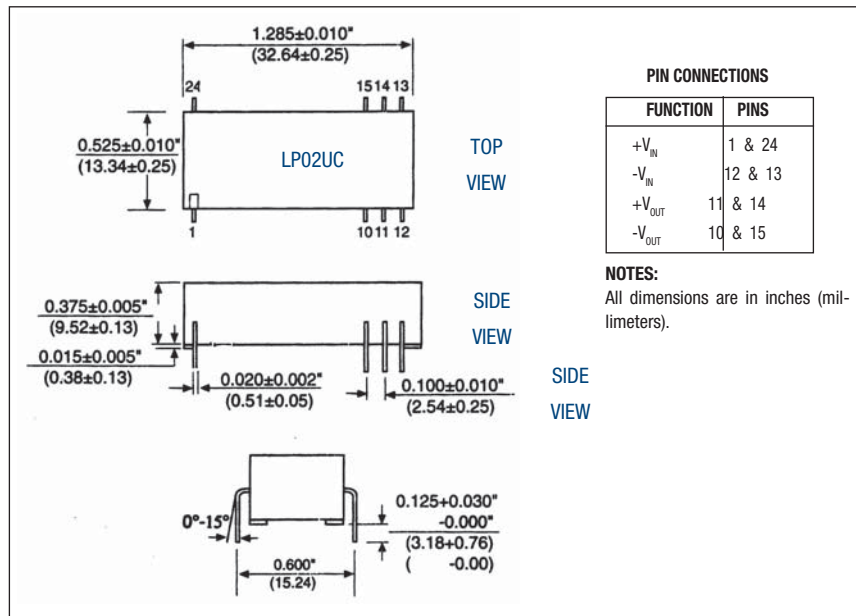
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- Surface mount construction

## APPLICATIONS

- Ethernet adapter cards
- Cheapernet Local area networks (LANs)

## MECHANICAL: PACKAGE/PINOUT "K"



## THROUGH-HOLE SOLDERING INFORMATION

These devices are intended for wave soldering or manual soldering. They are not intended to be subject to surface mount processes under any circumstances.

The normal wave soldering process can be used with these devices where the device is subjected to a maximum wave temperature of 260°C for a period of no more than 10 seconds. Within this time and temperature range, the integrity of the device's plastic body will not be compromised and internal temperatures within the converter will not exceed 175°C. Care should be taken to control manual soldering limits identical to that of wave soldering.

## ELECTRICAL SPECIFICATIONS

Specifications typical at T<sub>A</sub> = +25°C, nominal input voltage, rated output current unless otherwise specified.

Model	Nominal Input Voltage (Vdc)	Rated Output Voltage (Vdc)	Rated Output Current (mA)	Input Current		Efficiency (%)
				No Load (mA)	Rated Load (mA)	
LP02U05S09C	5	9	250	50	568	80
LP02U12S09C	12	9	250	30	240	77

NOTE: Other input to output voltage options may be available. Please consult factory.



## COMMON SPECIFICATIONS

Specifications typical at  $T_A = +25^\circ\text{C}$ , nominal input voltage, rated output current unless otherwise specified.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
<b>INPUT</b> Voltage Range Voltage Rise Time	LP02U05S09C LP02U12S09C	4.75 11.4	5 12	5.25 12.6	$V_{DC}$ $V_{DC}$
<b>ISOLATION</b> Rated Voltage Test Voltage Resistance Capacitance	60Hz, 10 Seconds	500 500	1 30		$V_{rms}$ $V_{pk}$ GΩ pF
<b>OUTPUT</b> Rated Power Voltage Setpoint Accuracy Ripple & Noise  Line Regulation Load Regulation	$I_{LOAD} = 200\text{mA}$ BW = DC to 10MHz BW = DC to 2MHz High Line to Low Line $25\text{mA} \leq I_{LOAD} \leq 200\text{mA}$		2.25 ±3 30 3 1.15 ±10		W % mVp-p mVrms %/ % %
<b>GENERAL</b> Switching Frequency Package Weight MTTF per MIL-HDBK-217E* Ground Benign	Circuit Stress Method $T_A = +25^\circ\text{C}$ $T_A = +70^\circ\text{C}$		100 6 3.0 700		kHz g Mhr khr
<b>TEMPERATURE</b> Specification Operation Storage		-25 -55 -55	+25	+70 +85 +100	$^\circ\text{C}$ $^\circ\text{C}$ $^\circ\text{C}$

## ABSOLUTE MAXIMUM RATINGS

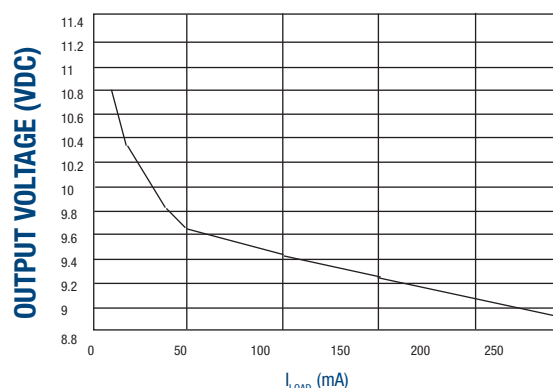
Output Short-Circuit Duration.....1 second

Internal Power Dissipation .....1W

## ORDERING INFORMATION

Device Family LP02U xyzz K C  
 Indicates Lan Enabled 2 Watt Regulated Unit  
 Model Number \_\_\_\_\_  
 Selected from Table of Electrical Specifications  
 Where:  
 xx = Input Voltage  
 y = Number of Outputs (Single "S")  
 zz = Output Voltage  
 Package \_\_\_\_\_  
 RoHS Compliant \_\_\_\_\_

## LOAD PERFORMANCE CURVE



Murata Power Solutions, Inc.  
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 ISO 9001 and 14001 REGISTERED



This product is subject to the following **operating requirements** and the **Life and Safety Critical Application Sales Policy**:  
 Refer to: <http://www.murata-ps.com/requirements/>

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