

# Description

- Miniature size and rugged construction
- Low DCR and high efficiency
- Suited for IR and vapor reflow solder
- Designed for high shock environments
- Frequency range 1kHz to 2MHz
- Ferrite core material

## Applications

- DC-DC converters
- · Filter inductors
- Signal conditioning
- Energy storage applications
- · Computer, pager and battery powered equipment

## **Environmental Data**

- Storage temperature range: -40°C to +125°C
- Operating ambient temperature range: -40°C to +85°C range is application specific. Temperature rise is approximately 40°C at rated RMS current. Maximum operating temperature is 125°C including ambient.
- Solder reflow temperature: +260°C max. for 10 seconds max.



## Packaging

• Supplied in tape and reel packaging, 1,750 per reel

Part	Inductance	OCL (1)	Irms (2)	Isat (3)	DCR (4)
Number	μH	μH ± 20%	Amperes	Amperes	Ohms
	(Rated)				(Max.)
UP2.8B-1R0-R	1.0	0.98	3.6	8.0	.0286
UP2.8B-1R5-R	1.5	1.59	3.3	6.4	.0349
UP2.8B-2R2-R	2.2	2.44	3.1	5.2	.0356
UP2.8B-3R3-R	3.3	3.24	2.8	4.5	.0474
UP2.8B-4R7-R	4.7	4.15	2.7	3.9	.0478
UP2.8B-6R8-R	6.8	6.73	2.4	3.2	.067
UP2.8B-100-R	10	10	2.1	2.7	.080
UP2.8B-150-R	15	15	1.7	2.2	.120
UP2.8B-220-R	22	22	1.5	1.7	.190
UP2.8B-330-R	33	33	1.3	1.5	.250
UP2.8B-470-R	47	47	1.0	1.2	.340
UP2.8B-680-R	68	68	.89	1.0	.480
UP2.8B-101-R	100	100	.78	.84	.622
UP2.8B-151-R	150	150	.62	.74	.971

1) Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc 2) RMS current, delta temp. of 40° C ambient temperature of 85° C

3) Peak current for approximately 10% roll-off @ 20°C 4) Values @ 20° C

#### **Mechanical Diagrams**



Dimensions in Millimeters. wwllyy = date code R = (revision level) xxx = Inductance value per family chart FRONT VIEW



Component View



UNI-PAC<sup>™</sup> 2.8 Low Cost, Low Profile 2.8mm Power Inductors (Surface Mount)



# UNI-PAC<sup>™</sup> 2.8 Low Cost, Low Profile 2.8mm Power Inductors (Surface Mount)

# **Packaging Information**



## **Inductance Characteristics**





PM-4106 3/07

Visit us on the Web at www.cooperbussmann.com

© Cooper Electronic 1225 Broken Sound Pkwy. Suite F Boca Raton, FL 33487

Technologies 2007 Tel: +1-561-998-4100 Toll Free: +1-888-414-2645 Fax: +1-561-241-6640

This bulletin is intended to present product design solutions and technical information that will help the end user with design applications. Cooper Electronic Technologies reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Electronic Technologies also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Cooper Electronic Technologies does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.