

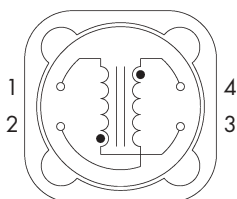
## FEATURES

- 2.2 $\mu$ H to 880 $\mu$ H<sup>1</sup>
- Up to 9.5A IDC
- Bobbin Format
- Dual Winding
- Surface Mounting
- Integral EMI Shield
- Compact Size
- Tape and Reel Packaging
- No Voltage Breakdown at 500VDC

## DESCRIPTION

The 4900 series is a range of dual wind inductors offering flexible options. Windings have a 1:1 ratio and can be connected in series or parallel to create a wide range of inductance combinations. The secondary winding could be used as a feedback winding in switched mode power supplies.

## PIN CONNECTIONS (TOP VIEW)



3 & 1 = Primary Winding  
4 & 2 = Secondary Winding

- 1 When connecting windings in series, inductance will be 4 times the nominal figure shown.
- 2 Specifications typical at TA=25°C
- 3 If current is flowing in both windings the maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

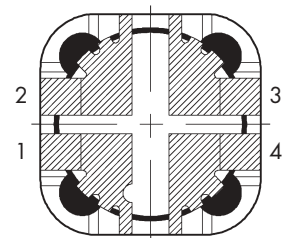
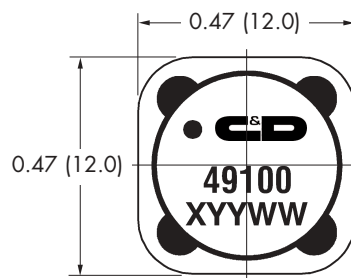
## SELECTION GUIDE<sup>2</sup>

	Nominal Inductance <sup>1</sup>	Inductance Range	DC Resistance	DC Current Continuous <sup>3</sup>
Order Code	$\mu$ H 10kHz, 100mV 1&3, 2&4	$\mu$ H 10kHz, 100mV 1&3, 2&4	m $\Omega$ MAX 1&3, 2&4	A MAX 1&2 S/C to 3&4 S/C
<b>492R2</b>	2.2	1.77 - 2.65	12.6	9.50
<b>493R3</b>	3.3	2.47 - 3.70	14.9	7.80
<b>494R7</b>	4.7	3.29 - 4.93	17.1	6.50
<b>496R8</b>	6.8	5.27 - 7.91	27.0	5.40
<b>49100</b>	10	7.70 - 11.6	41.0	4.50
<b>49150</b>	15	10.6 - 16.0	53.0	3.70
<b>49220</b>	22	15.9 - 23.8	81.0	3.00
<b>49330</b>	33	24.5 - 36.8	128	2.50
<b>49470</b>	47	35.1 - 52.6	191	2.10
<b>49680</b>	68	50.8 - 76.2	233	1.71
<b>49101</b>	100	73.6 - 110	348	1.41
<b>49151</b>	150	111 - 166	529	1.15
<b>49221</b>	220	167 - 251	805	0.95

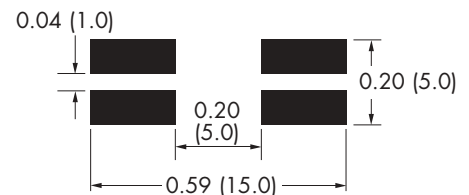
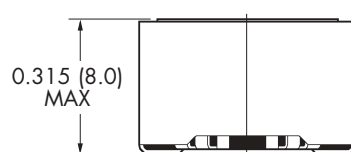
## PACKAGE DETAILS

Order Code	TYP Weight (g)	Packaging Style	QTY
49XXX	4	Tape & Reel	500

## MECHANICAL DIMENSIONS



## Recommended Footprint Details



All dimensions in inches (mm)

## ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

**C&D Technologies (NCL) Ltd**  
Tanners Drive, Blakelands North  
Milton Keynes MK14 5BU, England  
Tel: +44 (0)1908 615232  
Fax: +44 (0)1908 617545  
email: info@cdtechno-ncl.com

**C&D Technologies Inc.**  
3400 E Britannia Drive, Tucson,  
Arizona 85706, USA  
Tel: +1 (800) 547-2537  
Fax: +1 (520) 741-4598  
email: sales@cdtechno.com

C&D Technologies (NCL) Limited reserve the right to alter or improve the specification, internal design or manufacturing process at any time, without notice. Please check with your supplier or visit our web site to ensure that you have the current and complete specification for your product before use.

© C&D Technologies (NCL) Limited 2003

NMP 4900.1

No part of this publication may be copied, transmitted or stored in a retrieval system or reproduced in any way including, but not limited to, photography, photocopy, magnetic or other recording means, without prior written permission from C&D Technologies (NCL) Limited.

Instructions for use are available from: [www.cdpoweronline.com](http://www.cdpoweronline.com)