Murata Power Solutions

4700 Series

Shielded Dual Winding Surface Mount Inductors

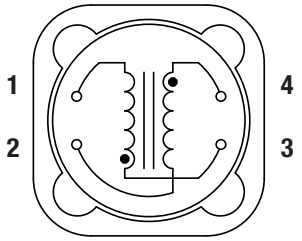
FEATURES

- RoHS compliant
- 1.0µH to 400µH[1]
- Up to 9.5A IDC
- Bobbin format
- Dual winding
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- J-STD-020-C reflow
- Backwards compatible with Sn/Pb soldering systems

PRODUCT OVERVIEW

The 4700 series is a range of dual wound inductors offering flexible options. Windings can be connected in series or parallel to create a wide range of inductance combinations. They can also be used as common mode chokes or 1:1 transformers with the secondary winding used as a feedback winding in switched mode power supplies.

PIN CONNECTIONS (TOP VIEW)



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

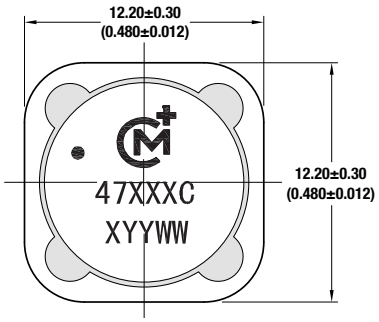
RoHS COMPLIANT

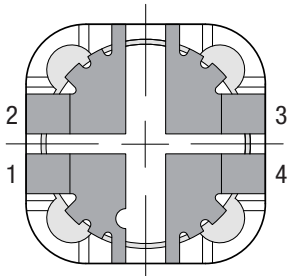
For full details go to
www.murata-ps.com/rohs

SELECTION GUIDE

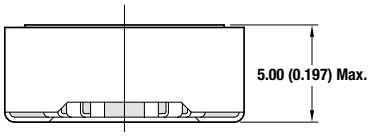
Order Code	Inductance[1] (10kHz, 100mVAC) 1&3, 2&4	Inductance Range (10kHz, 100mVAC) 1&3, 2&4	DC Current[2] (parallel connection)	DC Resistance 1&3, 2&4
	Nom.	Min. - Max.	Max.	Max.
	µH	µH	A	mΩ
471R0C	1.0	0.83 - 1.39	9.50	8.9
472R2C	2.2	1.38 - 2.30	6.80	13.7
473R3C	3.3	2.87 - 4.79	5.50	23.3
474R7C	4.7	4.08 - 6.12	4.60	32.4
476R8C	6.8	5.24 - 7.86	3.90	44.8
47100C	10	8.00 - 12.0	3.20	70.2
47150C	15	11.3 - 17.0	2.60	106
47220C	22	17.4 - 26.1	2.10	165
47330C	33	27.6 - 41.4	1.80	207
47470C	47	36.7 - 55.1	1.47	298
47680C	68	54.9 - 82.3	1.22	456
47101C	100	81.4 - 122	1.01	686

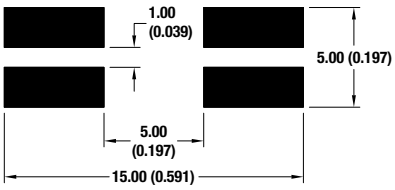
MECHANICAL DIMENSIONS





Recommended Footprint Details





All dimensions in mm (inches). Package weight: 2.5g Typ.

ABSOLUTE MAXIMUM RATINGS

Isolation voltage (flash tested for 1 second), pins 3 & 4	500VDC
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

SOLDERING INFORMATION[3]

Peak reflow temperature	245˚C
Pin finish	Tin

Specifications typical at T_A = 25°C

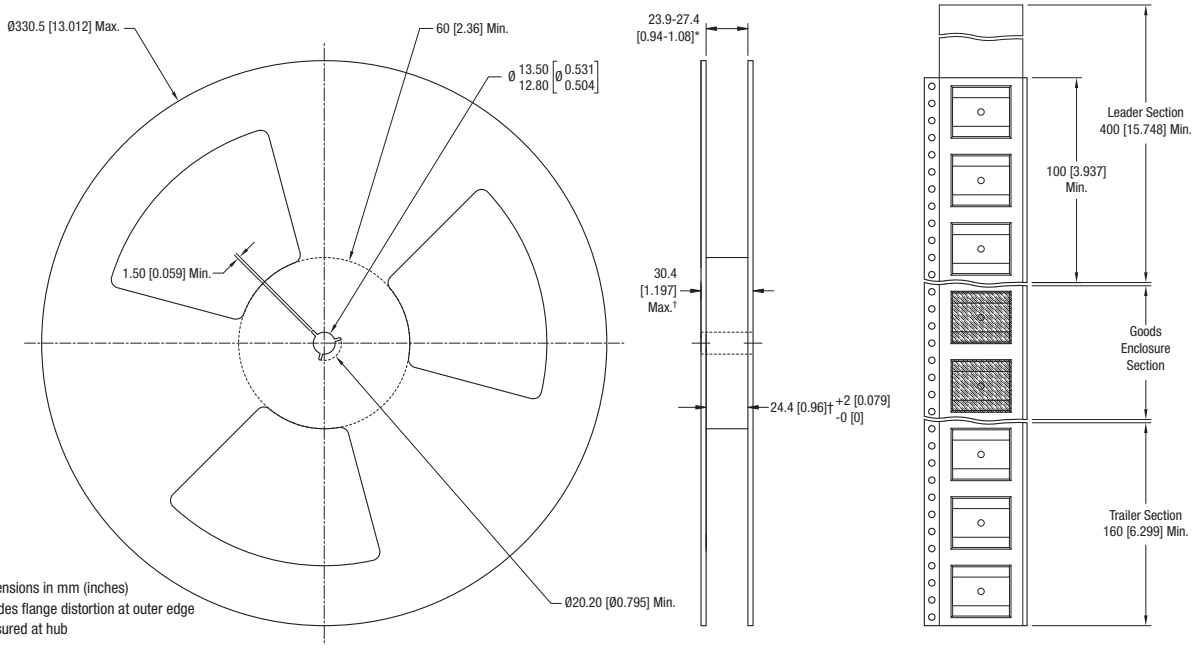
1 When connecting windings in series, inductance will be 4 times the nominal figure shown.

2 If current is flowing in both windings, the maximum DC current occurs when either the inductance falls to 85% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

3 For further information, please visit www.murata-ps.com/rohs

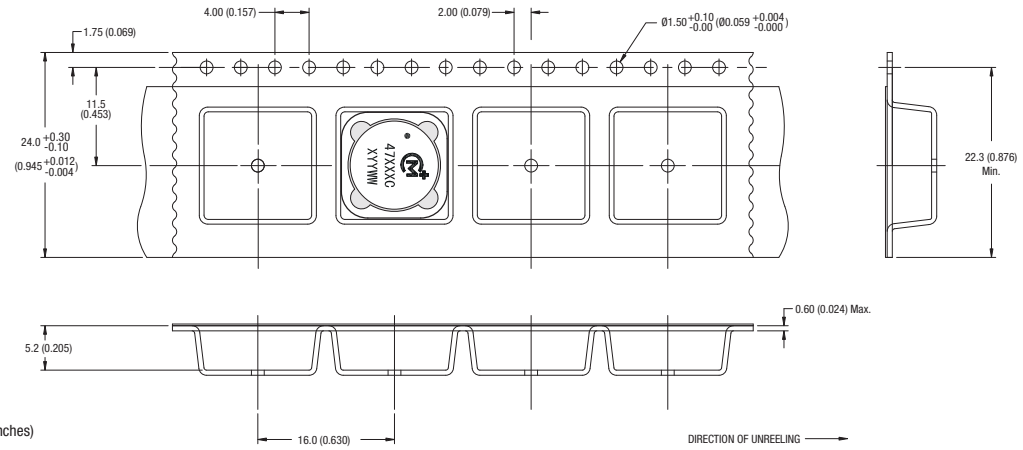
TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



All dimensions in mm (inches)
* Includes flange distortion at outer edge
† Measured at hub

TAPE OUTLINE DIMENSIONS



Reel quantity: 750
All dimensions in mm (inches)

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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Murata:

47100C 47150C 471R0C 47220C 472R2C 47330C 473R3C 47470C 474R7C 47680C 476R8C 47101C

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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Данный компонент на территории Российской Федерации

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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