



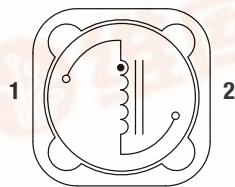
**FEATURES**

- RoHS compliant
- 1.0μH to 1.0mH
- Up to 10A lcc
- Bobbin format
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- UL 94V-0 materials
- J-STD-020-C reflow

**DESCRIPTION**

The 4800S series is a range of bobbin-wound, surface-mount inductors designed for use in switching power supply, and power line filter circuits. The parts are suitable for any application requiring a high saturation current in a low-profile package. The devices have an integral ferrite shield to reduce EMI.

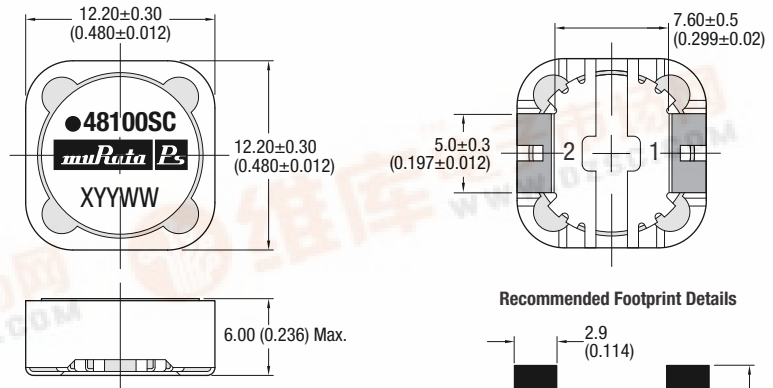
**PIN CONNECTIONS (TOP VIEW)**



**SELECTION GUIDE**

Order Code	Inductance (10kHz, 100mVAC) ±20%	DC Current <sup>1</sup>	DC Resistance	SRF	Q Factor	
	Nom. μH	Max. A	Max. mΩ	Typ. MHz	Typ. Q	Typ. @ f (MHz)
	<b>481R0SC</b>	1.0 (±30%)	10.0	6	83	35
<b>482R2SC</b>	2.2 (±30%)	8.2	10	48	36	1
<b>483R3SC</b>	3.3 (±30%)	7.3	12	39	34	1
<b>484R7SC</b>	4.7 (±30%)	6.3	16	28	34	1
<b>486R8SC</b>	6.8 (±30%)	5.1	21	26	34	1
<b>48100SC</b>	10	4.5	28	20	32	1
<b>48150SC</b>	15	3.7	40	17	31	1
<b>48220SC</b>	22	3.1	53	13	31	1
<b>48330SC</b>	33	2.8	73	11	31	1
<b>48470SC</b>	47	2.4	100	10	32	1
<b>48680SC</b>	68	1.8	145	9	33	1
<b>48101SC</b>	100	1.6	200	7	20	0.8
<b>48151SC</b>	150	1.35	280	6	23	0.8
<b>48221SC</b>	220	1.00	430	5	23	0.8
<b>48331SC</b>	330	0.85	630	5	22	0.8
<b>48471SC</b>	470	0.76	900	4	20	0.8
<b>48681SC</b>	680	0.66	1250	4	18	0.8
<b>48102SC</b>	1000	0.52	1850	4	17	0.8

**MECHANICAL DIMENSIONS**



Dot signifies the innermost turn of the winding.  
All dimensions in mm (inches). Package weight: 3.1g Typ.

**ABSOLUTE MAXIMUM RATINGS**

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

**SOLDERING INFORMATION<sup>2</sup>**

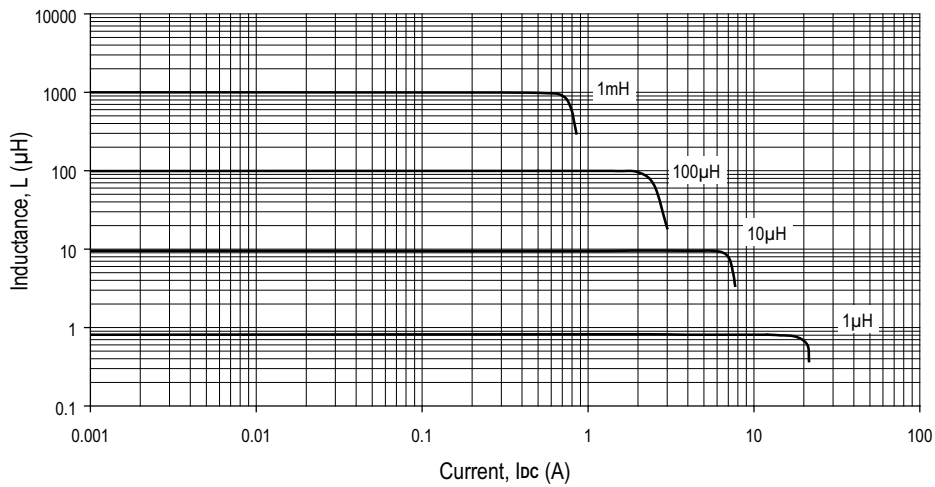
Peak reflow solder temperature	245°C
Pin finish	Tin

Specifications typical at T<sub>a</sub> = 25°C

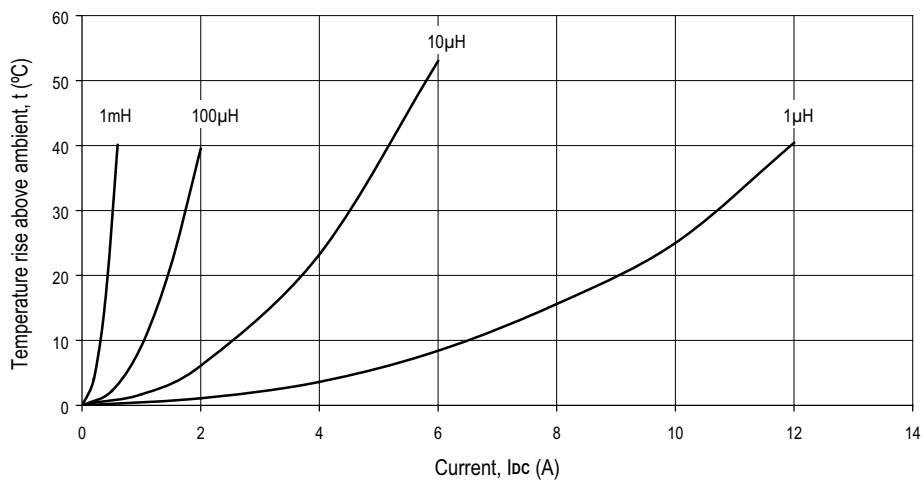
- 1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



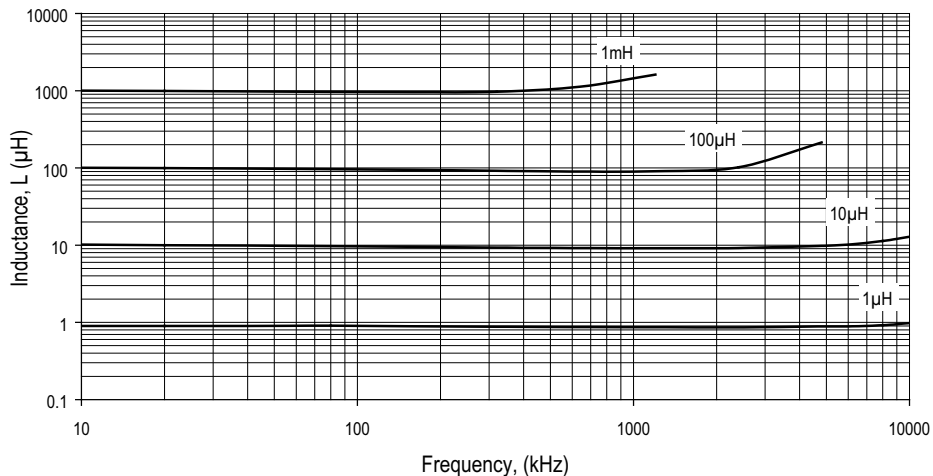
**INDUCTANCE Vs CURRENT**



**TEMPERATURE Vs CURRENT**

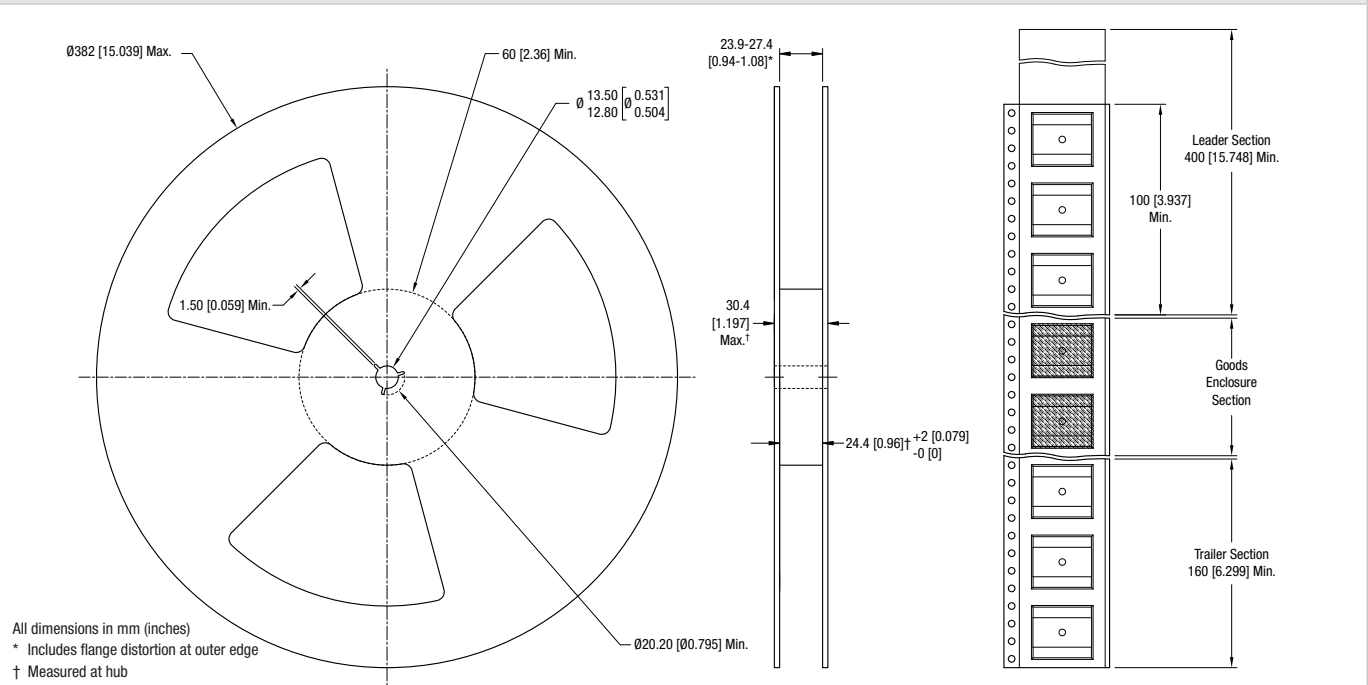


**INDUCTANCE Vs FREQUENCY**



**TAPE & REEL SPECIFICATIONS**

**REEL OUTLINE DIMENSIONS**



**TAPE OUTLINE DIMENSIONS**

