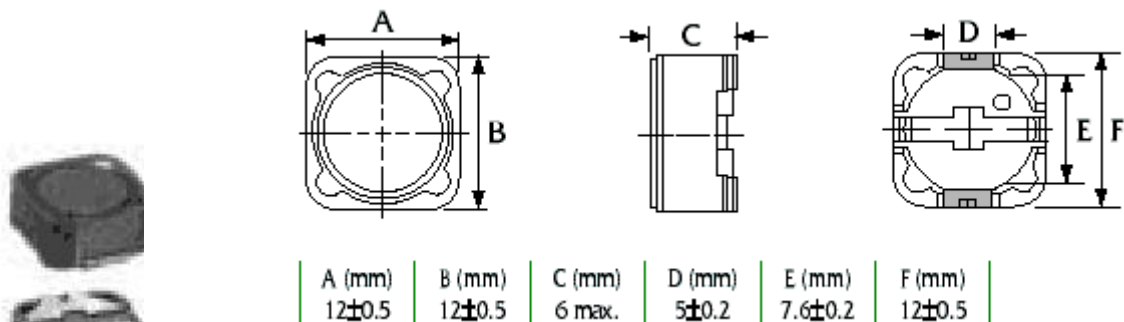
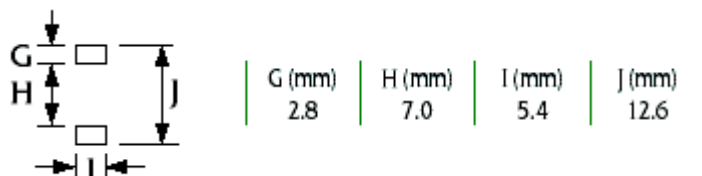
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CONFIGURATIONS & DIMENSIONS




SUGGESTED LAND PATTERN



PART NUMBER	INDUCTANCE(uH)	TEST FREQ(Hz)	DCR max. (Ω)	RATED DC CURRENT(A)
OWIRH125-1R3	1.3	1.00K	12m	8.00
OWIRH125-2R1	2.1	1.00K	14m	7.00
OWIRH125-3R1	3.1	1.00K	17m	6.00
OWIRH125-4R4	4.4	1.00K	20m	5.00
OWIRH125-5R8	5.8	1.00K	21m	4.40
OWIRH125-7R5	7.5	1.00K	24m	4.20
OWIRH125-7R6	7.6	1.00K	26m	4.50
OWIRH125-100	10.0	1.00K	25m	4.00
OWIRH125-120	12.0	1.00K	27m	3.50
OWIRH125-150	15.0	1.00K	30m	3.50
OWIRH125-180	18.0	1.00K	34m	3.00
OWIRH125-220	22.0	1.00K	36m	2.80
OWIRH125-270	27.0	1.00K	51m	2.30
OWIRH125-330	33.0	1.00K	57m	2.10
OWIRH125-390	39.0	1.00K	68m	2.00
OWIRH125-470	47.0	1.00K	75m	1.80
OWIRH125-560	56.0	1.00K	0.11	1.70
OWIRH125-680	68.0	1.00K	0.12	1.50

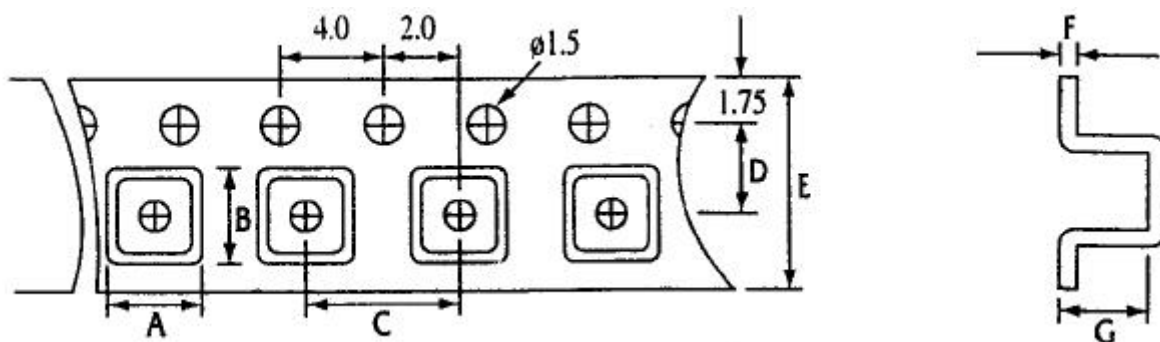
OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistonkatu 34 P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Room 4, 16/F, Charm Centre 700 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 8-J-1, Jalan Tun DR. Awang 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9475 FAX: +604 646 9476
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PART NUMBER	INDUCTANCE(uH)	TEST FREQ(Hz)	DCR max. (Ω)	RATED DC CURRENT(A)
OWIRH125-820	82.0	1.00K	0.14	1.40
OWIRH125-101	100.0	1.00K	0.16	1.30
OWIRH125-121	120.0	1.00K	0.17	1.10
OWIRH125-151	150.0	1.00K	0.23	1.00
OWIRH125-181	180.0	1.00K	0.29	0.90
OWIRH125-221	220.0	1.00K	0.40	0.80
OWIRH125-271	270.0	1.00K	0.46	0.75
OWIRH125-331	330.0	1.00K	0.51	0.68
OWIRH125-391	390.0	1.00K	0.69	0.65
OWIRH125-471	470.0	1.00K	0.77	0.58
OWIRH125-561	560.0	1.00K	0.86	0.54
OWIRH125-681	680.0	1.00K	1.20	0.48
OWIRH125-821	820.0	1.00K	1.34	0.43
OWIRH125-102	1000.0	1.00K	1.53	0.40

1. Open circuit inductance test parameters: 100KHz, 0.25Vrms, 0.0Adc.
2. DCR tested at 25°C.
3. The rated DC current indicates the value of current when the inductance is 75% more than its nominal value and temperature rising at t = 40 °C lower at DC superposition.
4. Tolerance of inductance 1.2uH – 7.6uH ±30%/20%(N), 10uH – 47uH±20%(M)


PACKING SPECIFICATION



Dimensions (mm)

A	B	C	D	E	F	G	Qty (pcs/reel)
12.0	12.0	16.0	11.5	24	0.40	7.10	500

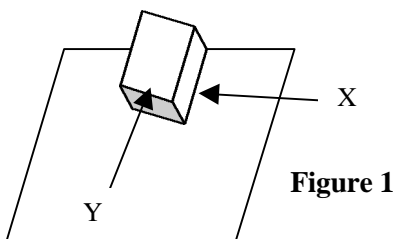
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GENERAL CHARACTERISTICS

The following characteristics apply to all Ole Wolff Group SMD Inductors.

- 1. Operating Temperature:** -40 ~ +125 °C
- 2. External Appearance:** On visual inspection, the coil has no external defects.
- 3. Terminal Strength:** After soldering a terminal strength test is carried out. The device is pushed in two directions as shown in Figure 1. 5.0N of force is applied for 60 seconds. The electrode should not peel off.



- 4. Dielectric Strength:** There should be no dielectric breakdown at 100V DC for 60 seconds between the coil and the core.
- 5. Insulation Resistance:** Over 100M Ω at 100V DC between coil and core.
- 6. Temperature Feature:** Inductance coefficient $(0\sim 2000)*10^{-6} / ^\circ\text{C}$ (-25 ~ +80 °C).
- 7. Humidity Test:** The coil is placed in an environment of 90-95% relative humidity at a temperature of $40 \pm 2^\circ\text{C}$ for 96 hours \pm 4 hours. The coil is then dried for 2 hours under normal conditions. The Inductance deviation should remain with 5.0%.
- 8. Vibration Test:** Inductance deviation within \pm 5% after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10Hz) with 1.5mm P-P amplitude.
- 9. Shock Resistance:** Inductance deviation within \pm 5% after being dropped at 981m/s using a rubber block testing machine. This device is tested in all three orientations vertically.
- 10. Soldering Profile:** Leaded, refer figure 2.

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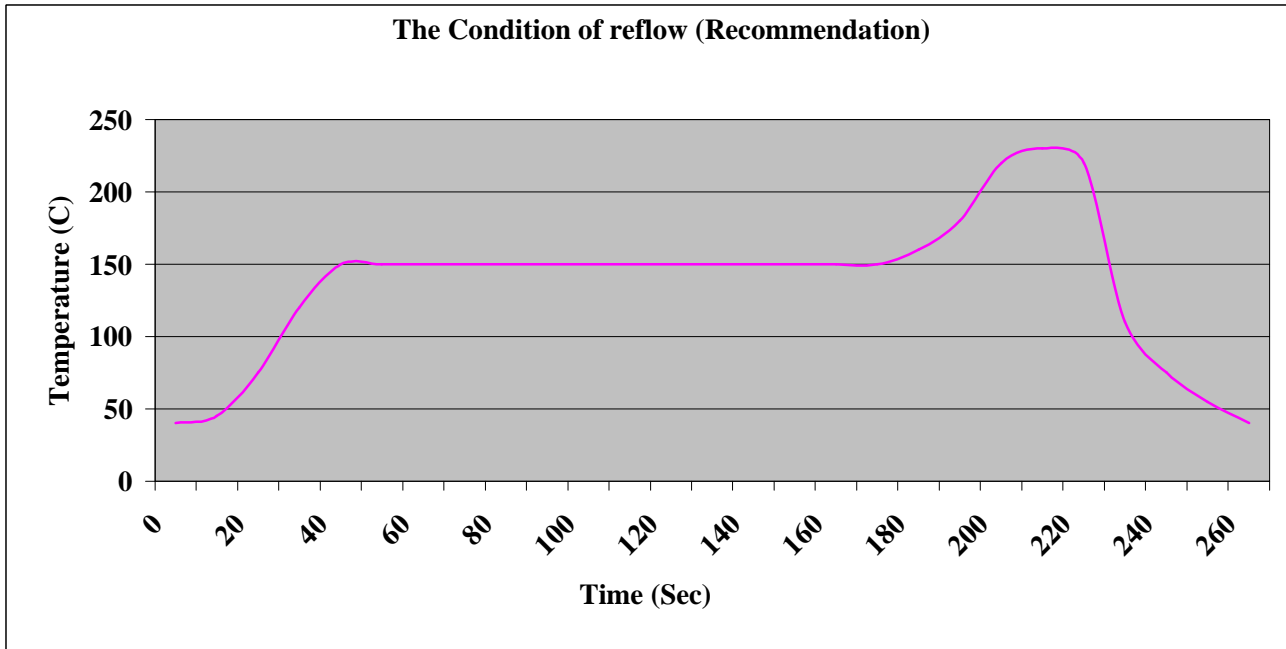
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Figure 2



From first starting the temperature is slowly increased from ambient of 25⁰C to 150⁰C over the first 40 seconds. This temperature is held steady for the next 130 seconds until it is quickly lifted to peak at 230⁰C, this is held for the next 60 second period. Over the next 40 seconds the reflow is cooled from 200⁰C back down to 40⁰C. The reflow ends after 260 seconds.

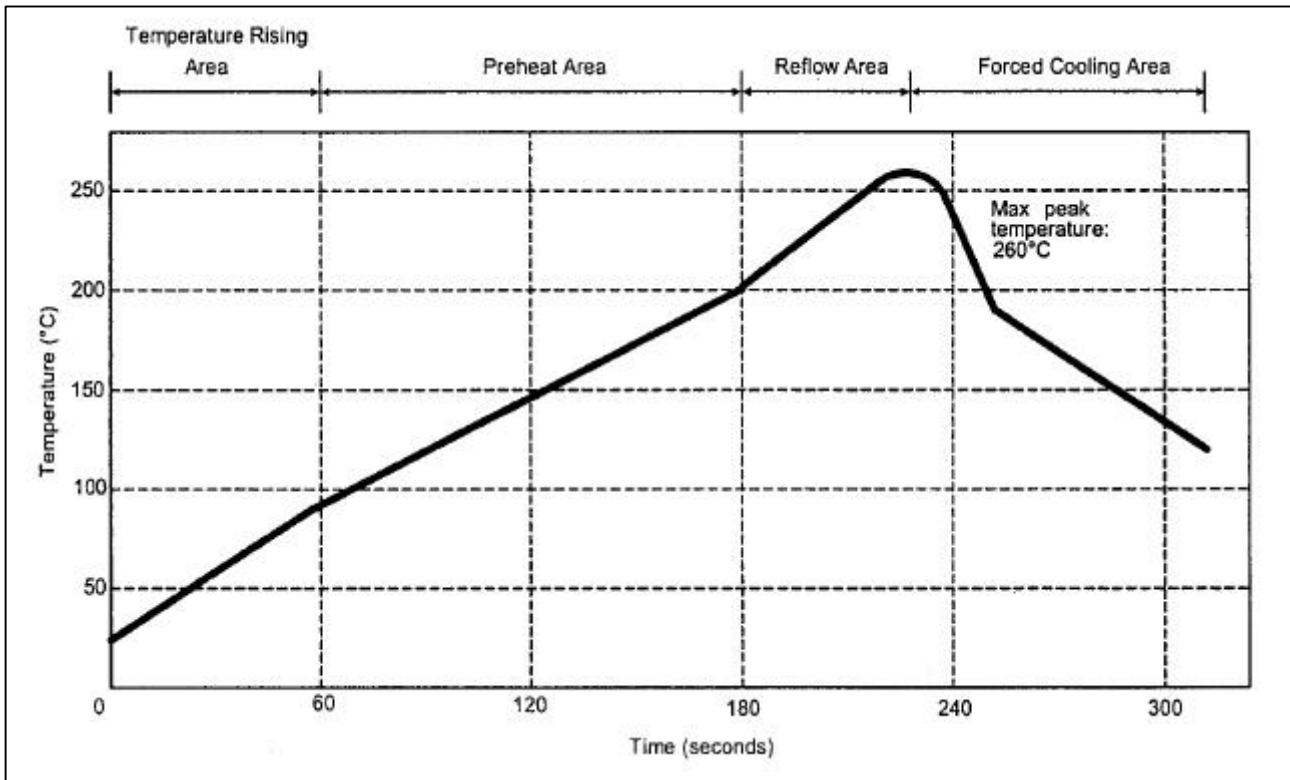
The reflow condition recommended above is according to the machine used by Ole Wolff. Differences may occur as a result of the type of machine, reflow conditons, methods, using alternative. Before setting up your reflow conditions, please verify with the above figure. Please feel free to speak to the sales office if you require any assistance.

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11. Soldering Profile: Lead-free, refer figure 3.


Figure 3



The solder paste used in the lead-free soldering process has a melting point between 217⁰C and 221⁰C. The flux is an RMA type.

The soldering profile described above should be regarded as a worst case i.e. the expected maximum component temperature. Deviations of soldering parameters occur depending on the thermal mass of the soldered PCBs.

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SPECIFICATION / SAMPLE APPROVAL FORM

Company Name:

Ole Wolff is pleased to submit the following sample for your tests and evaluations. We would be grateful, if once you have approved the sample that you sign and date one copy of this approval form. Please then either return it to us on the address shown on the covering letter or alternatively, fax the form to us on.

Our Part No:
Description:
Customer P/No:
Sample/s No:

Approved and signed by:..... **Date:**

Position:

Comments:

.....

.....

Important Notice:

Please ensure that all parameters are clearly identified and should any one criteria be incorrect, then please confirm to Ole Wolff, so that further samples can be arranged that meet with your exact requirements. Please review all minimum and maximum dimensions, together with fixing methods, shapes, board layouts, materials and surface finishes and make sure they are examined in addition to the standard tests for electrical and electronic performance.

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