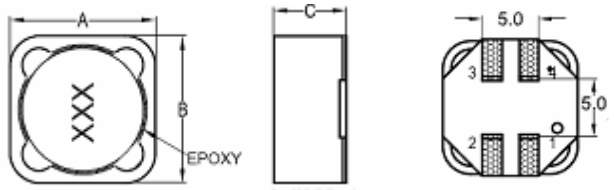
# SMTDRRI SERIES

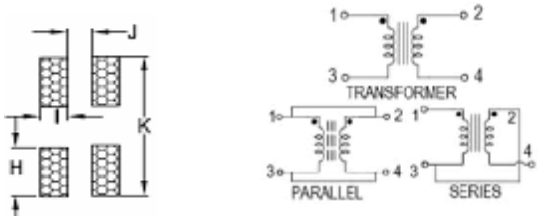
SHIELDED SMT POWER INDUCTORS.

## Applications :

- Satellite communication systems.
- TVs and audio equipment.
- Microwave equipment.

## Shape and Dimensions (Dimensions are in mm) :




| Item | A | B | C Max. |
|---|---|---|---|
| SMTDRRI74P | 7.3±0.3 | 7.3±0.3 | 4.8 |
| SMTDRRI125P | 12.0±0.3 | 12.0±0.3 | 6.5 |
| SMTDRRI127P | 12.0±0.3 | 12.0±0.3 | 8.5 |

| Item | I | J | H | K |
|---|---|---|---|---|
| SMTDRRI74P | 1.1 | 0.8 | 2.1 | 7.5 |
| SMTDRRI125P | 2.0 | 1.5 | 4.0 | 12.5 |
| SMTDRRI127P | 2.0 | 1.5 | 4.0 | 12.5 |

## Features :

- High Q over a wide frequency range.
- With magnetic shield against radiation .
- Directly connected electrode on ferrite core.
- Highly accurate dimensions for automatic mounting.
- Winding to winding isolation 200 Vrms.
- Resistance to soldering heat Max three 10 second reflows at.
- +260°C, parts cooled to room temperature between cycles.
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at. <30°C /85% relative humidity)

## Product identification :

| SMT | DRRI74 | P - | 101 | M- | 4P |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |

(1).Type : Surface Mount Type.

(2).Style : L=7.3mm W=7.3mm H=4.5mm.

(3). Base type : plastify.

(4).Inductance : 101 for 100 uH.

(5).Inductance tolerance : K : ±10% M ±20%.

(6).4P : 4 terminals.

## Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 30% lower than initial value.(Ta=25°C).
- Temperature Rise (Irms): The current when temperature of coil increases up to Max △T=40°C. (Ta=25°C)
- Operating temperature: -40°C to 125°C.

## Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C.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## I SMTDRRI 74P series

| PART NO. | L ±20% (uH) | I sat(A) 10%drop Typ. | I sat(A) 20%drop Typ. | I sat(A) 30%drop Typ. | DCR (Ω) Max. | SRF MHz Typ. | I rms(A) both windings | I rms(A) one windings |
|---|---|---|---|---|---|---|---|---|
| SMTDRRI74P-2R5□-4P | 2.5 | 6.00 | 6.20 | 6.30 | 0.036 | 55.0 | 2.17 | 3.06 |
| SMTDRRI74P-3R3□-4P | 3.3 | 5.20 | 5.30 | 5.40 | 0.044 | 43.0 | 2.05 | 2.89 |
| SMTDRRI74P-4R7□-4P | 4.7 | 4.10 | 4.30 | 4.60 | 0.051 | 35.0 | 1.74 | 2.46 |
| SMTDRRI74P-5R6□-4P | 5.6 | 3.90 | 4.10 | 4.20 | 0.063 | 32.0 | 1.57 | 2.22 |
| SMTDRRI74P-6R8□-4P | 6.8 | 3.70 | 3.80 | 3.90 | 0.070 | 30.0 | 1.49 | 2.10 |
| SMTDRRI74P-8R2-□4P | 8.2 | 3.30 | 3.40 | 3.50 | 0.086 | 27.0 | 1.44 | 2.03 |
| SMTDRRI74P-100□-4P | 10 | 2.80 | 2.90 | 3.00 | 0.100 | 22.0 | 1.24 | 1.76 |
| SMTDRRI74P-120□-4P | 12 | 2.50 | 2.60 | 2.70 | 0.120 | 20.0 | 1.14 | 1.61 |
| SMTDRRI74P-150□-4P | 15 | 2.20 | 2.30 | 2.40 | 0.140 | 18.0 | 1.09 | 1.54 |
| SMTDRRI74P-180□-4P | 18 | 2.00 | 2.20 | 2.30 | 0.170 | 15.0 | 0.95 | 1.35 |
| SMTDRRI74P-220□-4P | 22 | 1.90 | 2.00 | 2.10 | 0.220 | 13.5 | 0.84 | 1.19 |
| SMTDRRI74P-270□-4P | 27 | 1.70 | 1.80 | 1.90 | 0.250 | 12.0 | 0.79 | 1.11 |
| SMTDRRI74P-330□-4P | 33 | 1.50 | 1.60 | 1.70 | 0.30 | 11.0 | 0.76 | 1.07 |
| SMTDRRI74P-390□-4P | 39 | 1.30 | 1.40 | 1.50 | 0.38 | 10.0 | 0.64 | 0.90 |
| SMTDRRI74P-470□-4P | 47 | 1.20 | 1.30 | 1.40 | 0.42 | 9.5 | 0.61 | 0.86 |
| SMTDRRI74P-560□-4P | 56 | 1.10 | 1.20 | 1.30 | 0.54 | 8.7 | 0.58 | 0.82 |
| SMTDRRI74P-680□-4P | 68 | 1.00 | 1.10 | 1.20 | 0.64 | 7.3 | 0.51 | 0.72 |
| SMTDRRI74P-820□-4P | 82 | 0.90 | 1.00 | 1.10 | 0.72 | 6.2 | 0.48 | 0.67 |
| SMTDRRI74P-101□-4P | 100 | 0.80 | 0.92 | 0.98 | 0.90 | 5.5 | 0.45 | 0.63 |
| SMTDRRI74P-121□-4P | 120 | 0.70 | 0.80 | 0.90 | 1.12 | 4.5 | 0.39 | 0.55 |
| SMTDRRI74P-151□-4P | 150 | 0.65 | 0.76 | 0.80 | 1.35 | 4.0 | 0.34 | 0.48 |
| SMTDRRI74P-181□-4P | 180 | 0.62 | 0.66 | 0.73 | 1.66 | 3.8 | 0.32 | 0.45 |
| SMTDRRI74P-221□-4P | 220 | 0.59 | 0.62 | 0.66 | 2.20 | 3.5 | 0.30 | 0.42 |
| SMTDRRI74P-271□-4P | 270 | 0.55 | 0.57 | 0.60 | 2.60 | 3.3 | 0.25 | 0.36 |
| SMTDRRI74P-331□-4P | 330 | 0.49 | 0.52 | 0.54 | 3.20 | 3.0 | 0.24 | 0.34 |
| SMTDRRI74P-391□-4P | 390 | 0.45 | 0.47 | 0.50 | 4.20 | 2.8 | 0.23 | 0.32 |
| SMTDRRI74P-471□-4P | 470 | 0.41 | 0.43 | 0.46 | 4.70 | 2.6 | 0.20 | 0.28 |
| SMTDRRI74P-561□-4P | 560 | 0.38 | 0.40 | 0.42 | 5.30 | 2.5 | 0.19 | 0.26 |
| SMTDRRI74P-681□-4P | 680 | 0.36 | 0.37 | 0.38 | 7.00 | 2.3 | 0.18 | 0.25 |
| SMTDRRI74P-821□-4P | 820 | 0.30 | 0.32 | 0.35 | 7.80 | 2.2 | 0.15 | 0.21 |
| SMTDRRI74P-102□-4P | 1000 | 0.27 | 0.29 | 0.31 | 10.8 | 2.0 | 0.14 | 0.20 |

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0Adc on an Agilent/HP 4284A LCR meter or equivalent. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
3. SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.
4. DC current, when applied to one winding, at which the inductance drops the specified amount from its value without current.
5. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
6. Maximum current, when applied to one winding, that causes a 40°C temperature rise from 25°C ambient.
7. Electrical specifications at 25°C.


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## I SMTDRRI 74P series

| PART NO. | leads connected in parallel | | | | | leads connected in series | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L ±20% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | Irms (A) | L ±25% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | I rms (A) |
| SMTDRRI74P-2R5-□4P | 2.5 | 0.018 | 6.30 | 55.0 | 4.33 | 10.0 | 0.072 | 3.15 | 17.60 | 2.17 |
| SMTDRRI74P-3R3-□4P | 3.3 | 0.022 | 5.40 | 43.0 | 4.09 | 13.2 | 0.088 | 2.70 | 12.90 | 2.05 |
| SMTDRRI74P-4R7-□4P | 4.7 | 0.026 | 4.60 | 35.0 | 3.48 | 18.8 | 0.102 | 2.30 | 9.80 | 1.74 |
| SMTDRRI74P-5R6-□4P | 5.6 | 0.032 | 4.20 | 32.0 | 3.14 | 22.4 | 0.126 | 2.10 | 8.48 | 1.57 |
| SMTDRRI74P-6R8-□4P | 6.8 | 0.035 | 3.90 | 30.0 | 2.97 | 27.2 | 0.140 | 1.95 | 7.92 | 1.49 |
| SMTDRRI74P-8R2-□4P | 8.2 | 0.043 | 3.50 | 27.0 | 2.87 | 32.8 | 0.172 | 1.75 | 7.10 | 1.44 |
| SMTDRRI74P-100-□4P | 10 | 0.050 | 3.00 | 22.0 | 2.49 | 40.0 | 0.20 | 1.50 | 5.75 | 1.24 |
| SMTDRRI74P-120-□4P | 12 | 0.060 | 2.70 | 20.0 | 2.28 | 48.0 | 0.24 | 1.35 | 5.18 | 1.14 |
| SMTDRRI74P-150-□4P | 15 | 0.070 | 2.40 | 18.0 | 2.18 | 60.0 | 0.28 | 1.20 | 4.59 | 1.09 |
| SMTDRRI74P-180-□4P | 18 | 0.085 | 2.30 | 15.0 | 1.91 | 72.0 | 0.34 | 1.15 | 3.80 | 0.95 |
| SMTDRRI74P-220-□4P | 22 | 0.110 | 2.10 | 13.5 | 1.68 | 88.0 | 0.44 | 1.05 | 3.38 | 0.84 |
| SMTDRRI74P-270-□4P | 27 | 0.125 | 1.90 | 12.0 | 1.57 | 108 | 0.50 | 0.95 | 2.98 | 0.79 |
| SMTDRRI74P-330-□4P | 33 | 0.150 | 1.70 | 11.0 | 1.51 | 132 | 0.60 | 0.85 | 2.68 | 0.76 |
| SMTDRRI74P-390□-4P | 39 | 0.190 | 1.50 | 10.0 | 1.27 | 156 | 0.76 | 0.75 | 2.40 | 0.64 |
| SMTDRRI74P-470□-4P | 47 | 0.21 | 1.40 | 9.50 | 1.22 | 188 | 0.84 | 0.70 | 2.23 | 0.61 |
| SMTDRRI74P-560□-4P | 56 | 0.27 | 1.30 | 8.70 | 1.16 | 224 | 1.08 | 0.65 | 2.16 | 0.58 |
| SMTDRRI74P-680□-4P | 68 | 0.32 | 1.20 | 7.30 | 1.02 | 272 | 1.28 | 0.60 | 1.73 | 0.51 |
| SMTDRRI74P-820□-4P | 82 | 0.36 | 1.10 | 6.20 | 0.95 | 328 | 1.44 | 0.55 | 1.35 | 0.48 |
| SMTDRRI74P-101□-4P | 100 | 0.45 | 0.98 | 5.50 | 0.89 | 400 | 1.80 | 0.49 | 1.18 | 0.45 |
| SMTDRRI74P-121□-4P | 120 | 0.56 | 0.90 | 4.50 | 0.78 | 480 | 2.24 | 0.45 | 1.10 | 0.39 |
| SMTDRRI74P-151□-4P | 150 | 0.675 | 0.80 | 4.00 | 0.68 | 600 | 2.70 | 0.40 | 0.82 | 0.34 |
| SMTDRRI74P-181□-4P | 180 | 0.83 | 0.73 | 3.80 | 0.64 | 720 | 3.32 | 0.36 | 0.72 | 0.32 |
| SMTDRRI74P-221□-4P | 220 | 1.10 | 0.66 | 3.50 | 0.59 | 880 | 4.40 | 0.33 | 0.63 | 0.30 |
| SMTDRRI74P-271□-4P | 270 | 1.30 | 0.60 | 3.30 | 0.51 | 1080 | 5.20 | 0.30 | 0.58 | 0.25 |
| SMTDRRI74P-331□-4P | 330 | 1.60 | 0.54 | 3.00 | 0.48 | 1320 | 6.40 | 0.27 | 0.53 | 0.24 |
| SMTDRRI74P-391□-4P | 390 | 2.10 | 0.50 | 2.80 | 0.45 | 1560 | 8.40 | 0.25 | 0.48 | 0.23 |
| SMTDRRI74P-471□-4P | 470 | 2.35 | 0.46 | 2.60 | 0.40 | 1880 | 9.40 | 0.23 | 0.42 | 0.20 |
| SMTDRRI74P-561□-4P | 560 | 2.65 | 0.42 | 2.50 | 0.37 | 2240 | 10.6 | 0.21 | 0.39 | 0.19 |
| SMTDRRI74P-681□-4P | 680 | 3.50 | 0.38 | 2.30 | 0.35 | 2720 | 14.0 | 0.19 | 0.34 | 0.18 |
| SMTDRRI74P-821□-4P | 820 | 3.90 | 0.35 | 2.20 | 0.30 | 3280 | 15.6 | 0.175 | 0.32 | 0.15 |
| SMTDRRI74P-102□-4P | 1000 | 5.40 | 0.31 | 2.00 | 0.28 | 4000 | 21.6 | 0.155 | 0.28 | 0.14 |

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings when connected in parallel. DCR for each winding is twice the value.
4. SRF measured using Agilent/HP E4991A or equivalent.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Electrical specifications at 25°C.
9. Inductance tolerance: 2.5uH~100uH tolerance can be done “M” 120uH~1000uH tolerance can be done “K”


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## I SMTDRRI125P series

| PART NO. | L ±20% (uH) | I sat(A) 30%drop Typ. | DCR (Ω) Max. | SRF MHz Typ. | I rms(A) both windings | I rms(A) one windings |
|---|---|---|---|---|---|---|
| SMTDRRI125P-4R7□-4P | 4.7 | 10.30 | 0.036 | 32.0 | 3.16 | 4.47 |
| SMTDRRI125P-5R6□-4P | 5.6 | 9.66 | 0.040 | 31.0 | 3.00 | 4.24 |
| SMTDRRI125P-6R8□-4P | 6.8 | 9.21 | 0.048 | 28.0 | 2.75 | 3.88 |
| SMTDRRI125P-8R2□-4P | 8.2 | 8.55 | 0.052 | 25.0 | 2.63 | 3.72 |
| SMTDRRI125P-100□-4P | 10 | 7.40 | 0.060 | 22.0 | 2.45 | 3.46 |
| SMTDRRI125P-120□-4P | 12 | 6.86 | 0.074 | 21.0 | 2.21 | 3.12 |
| SMTDRRI125P-150□-4P | 15 | 6.09 | 0.085 | 17.6 | 2.06 | 2.92 |
| SMTDRRI125P-180□-4P | 18 | 5.30 | 0.097 | 17.0 | 1.93 | 2.73 |
| SMTDRRI125P-220□-4P | 22 | 5.01 | 0.116 | 15.0 | 1.76 | 2.49 |
| SMTDRRI125P-270□-4P | 27 | 4.66 | 0.124 | 13.6 | 1.70 | 2.41 |
| SMTDRRI125P-330□-4P | 33 | 4.22 | 0.134 | 12.7 | 1.64 | 2.32 |
| SMTDRRI125P-390□-4P | 39 | 3.80 | 0.142 | 11.7 | 1.59 | 2.25 |
| SMTDRRI125P-470□-4P | 47 | 3.25 | 0.174 | 8.7 | 1.44 | 2.03 |
| SMTDRRI125P-560□-4P | 56 | 3.07 | 0.198 | 7.6 | 1.35 | 1.91 |
| SMTDRRI125P-680□-4P | 68 | 2.83 | 0.216 | 6.1 | 1.29 | 1.83 |
| SMTDRRI125P-820□-4P | 82 | 2.55 | 0.274 | 5.3 | 1.15 | 1.62 |
| SMTDRRI125P-101□-4P | 100 | 2.20 | 0.322 | 5.0 | 1.06 | 1.50 |
| SMTDRRI125P-121□-4P | 120 | 2.05 | 0.418 | 4.4 | 0.93 | 1.31 |
| SMTDRRI125P-151□-4P | 150 | 1.82 | 0.476 | 4.0 | 0.87 | 1.23 |
| SMTDRRI125P-181□-4P | 180 | 1.60 | 0.536 | 3.6 | 0.82 | 1.16 |
| SMTDRRI125P-221□-4P | 220 | 1.51 | 0.691 | 3.2 | 0.72 | 1.02 |
| SMTDRRI125P-271□-4P | 270 | 1.41 | 0.806 | 2.8 | 0.67 | 0.95 |
| SMTDRRI125P-331□-4P | 330 | 1.28 | 1.09 | 2.5 | 0.57 | 0.81 |
| SMTDRRI125P-391□-4P | 390 | 1.16 | 1.20 | 2.3 | 0.55 | 0.77 |
| SMTDRRI125P-471□-4P | 470 | 1.00 | 1.59 | 2.1 | 0.48 | 0.67 |
| SMTDRRI125P-561□-4P | 560 | 0.95 | 1.81 | 2.0 | 0.45 | 0.63 |
| SMTDRRI125P-681□-4P | 680 | 0.88 | 2.06 | 1.8 | 0.42 | 0.59 |
| SMTDRRI125P-821□-4P | 820 | 0.79 | 2.65 | 1.5 | 0.37 | 0.52 |
| SMTDRRI125P-102□-4P | 1000 | 0.69 | 3.06 | 1.2 | 0.34 | 0.49 |

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms,0 Adc on an Agilent/HP 4284A LCR meter or equivalent. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
3. SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.
4. DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.
5. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient. .
6. Maximum current, when applied to one winding, that causes a 40°Ctemperature rise from 25°C ambient.
7. Electrical specifications at 25°C.



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## I SMTDRRI125P series

| PART NO. | leads connected in parallel | | | | | leads connected in series | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L ±20% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | I rms (A) | L ±25% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | I rms (A) |
| SMTDRRI125P-4R7□-4P | 4.7 | 0.018 | 10.30 | 32.0 | 7.2 | 18.8 | 0.072 | 5.15 | 12.00 | 3.4 |
| SMTDRRI125P-5R6□-4P | 5.6 | 0.020 | 9.66 | 31.0 | 7.0 | 22.4 | 0.080 | 4.83 | 10.30 | 3.3 |
| SMTDRRI125P-6R8□-4P | 6.8 | 0.024 | 9.21 | 28.0 | 6.6 | 27.2 | 0.095 | 4.61 | 8.40 | 3.2 |
| SMTDRRI125P-8R2□-4P | 8.2 | 0.026 | 8.55 | 25.0 | 6.4 | 32.8 | 0.104 | 4.28 | 7.10 | 3.1 |
| SMTDRRI125P-100□-4P | 10 | 0.030 | 7.40 | 22.0 | 5.4 | 40.0 | 0.120 | 3.70 | 6.00 | 2.8 |
| SMTDRRI125P-120□-4P | 12 | 0.037 | 6.86 | 21.0 | 5.2 | 48.0 | 0.147 | 3.43 | 5.80 | 2.7 |
| SMTDRRI125P-150□-4P | 15 | 0.042 | 6.09 | 17.6 | 4.6 | 60.0 | 0.170 | 3.05 | 5.50 | 2.5 |
| SMTDRRI125P-180□-4P | 18 | 0.048 | 5.30 | 17.0 | 4.4 | 72.0 | 0.194 | 2.65 | 5.00 | 2.2 |
| SMTDRRI125P-220□-4P | 22 | 0.058 | 5.01 | 15.0 | 4.2 | 88.0 | 0.232 | 2.51 | 4.10 | 2.1 |
| SMTDRRI125P-270□-4P | 27 | 0.062 | 4.66 | 13.6 | 3.7 | 108 | 0.248 | 2.33 | 3.50 | 1.9 |
| SMTDRRI125P-330□-4P | 33 | 0.067 | 4.22 | 12.7 | 3.6 | 132 | 0.268 | 2.11 | 3.10 | 1.6 |
| SMTDRRI125P-390□-4P | 39 | 0.071 | 3.80 | 11.7 | 3.2 | 156 | 0.284 | 1.90 | 2.80 | 1.5 |
| SMTDRRI125P-470□-4P | 47 | 0.087 | 3.25 | 8.7 | 2.9 | 188 | 0.348 | 1.63 | 2.00 | 1.4 |
| SMTDRRI125P-560□-4P | 56 | 0.099 | 3.07 | 7.6 | 2.7 | 224 | 0.396 | 1.54 | 2.00 | 1.3 |
| SMTDRRI125P-680□-4P | 68 | 0.108 | 2.83 | 6.1 | 2.5 | 272 | 0.432 | 1.42 | 1.80 | 1.2 |
| SMTDRRI125P-820□-4P | 82 | 0.137 | 2.55 | 5.3 | 2.3 | 328 | 0.548 | 1.28 | 1.60 | 1.1 |
| SMTDRRI125P-101□-4P | 100 | 0.161 | 2.20 | 5.0 | 1.9 | 400 | 0.642 | 1.10 | 1.40 | 1.0 |
| SMTDRRI125P-121□-4P | 120 | 0.209 | 2.05 | 4.4 | 1.8 | 480 | 0.834 | 1.03 | 1.20 | 0.8 |
| SMTDRRI125P-151□-4P | 150 | 0.238 | 1.82 | 4.0 | 1.7 | 600 | 0.952 | 0.91 | 1.10 | 0.78 |
| SMTDRRI125P-181□-4P | 180 | 0.268 | 1.60 | 3.6 | 1.6 | 720 | 1.072 | 0.80 | 0.81 | 0.75 |
| SMTDRRI125P-221□-4P | 220 | 0.346 | 1.51 | 3.2 | 1.5 | 880 | 1.382 | 0.76 | 0.74 | 0.71 |
| SMTDRRI125P-271□-4P | 270 | 0.403 | 1.41 | 2.8 | 1.4 | 1080 | 1.61 | 0.71 | 0.63 | 0.65 |
| SMTDRRI125P-331□-4P | 330 | 0.545 | 1.28 | 2.5 | 1.2 | 1320 | 2.18 | 0.64 | 0.60 | 0.56 |
| SMTDRRI125P-391□-4P | 390 | 0.600 | 1.16 | 2.3 | 1.0 | 1560 | 2.40 | 0.58 | 0.52 | 0.50 |
| SMTDRRI125P-471□-4P | 470 | 0.795 | 1.00 | 2.1 | 0.86 | 1880 | 3.18 | 0.50 | 0.43 | 0.41 |
| SMTDRRI125P-561□-4P | 560 | 0.905 | 0.95 | 2.0 | 0.80 | 2240 | 3.62 | 0.48 | 0.36 | 0.38 |
| SMTDRRI125P-681□-4P | 680 | 1.030 | 0.88 | 1.8 | 0.74 | 2720 | 4.12 | 0.44 | 0.32 | 0.35 |
| SMTDRRI125P-821□-4P | 820 | 1.325 | 0.79 | 1.5 | 0.67 | 3280 | 5.30 | 0.40 | 0.27 | 0.32 |
| SMTDRRI125P-102□-4P | 1000 | 1.530 | 0.69 | 1.2 | 0.50 | 4000 | 6.12 | 0.35 | 0.23 | 0.29 |

1. Inductance shown for coupled inductor and for two inductors connected in parallel.

2 .Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.

3. DCR is for both windings when connected in parallel.

4. DCR for each winding is twice the value.

5. SRF measured using Agilent/HP E4991A or equivalent.

6. DC current at which the inductance drops 30% (typ) from its value without current.

7. Current that causes a 40°C temperature rise from 25°C ambient.

8. DCR is for both windings.

9. Inductance tolerance:4.7uH~100uH tolerance can be done “M” ,120uH~1000uH tolerance can be done “K”


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## I SMTDRRI127P series

| PART NO. | L ±20% (uH) | I sat(A) 30%drop Typ. | DCR (Ω) Max. | SRF MHz Typ. | I rms(A) both windings | I rms(A) one windings |
|---|---|---|---|---|---|---|
| SMTDRRI127P-4R7□-4P | 4.7 | 14.9 | 0.038 | 32.0 | 3.16 | 4.47 |
| SMTDRRI127P-5R6□-4P | 5.6 | 13.4 | 0.046 | 25.0 | 2.87 | 4.06 |
| SMTDRRI127P-6R8□-4P | 6.8 | 13.1 | 0.048 | 24.0 | 2.81 | 3.98 |
| SMTDRRI127P-8R2□-4P | 8.2 | 10.8 | 0.050 | 18.0 | 2.76 | 3.90 |
| SMTDRRI127P-100□-4P | 10 | 10.5 | 0.058 | 16.5 | 2.56 | 3.62 |
| SMTDRRI127P-120□-4P | 12 | 9.6 | 0.062 | 14.5 | 2.48 | 3.50 |
| SMTDRRI127P-150□-4P | 15 | 9.1 | 0.072 | 11.8 | 2.30 | 3.25 |
| SMTDRRI127P-180□-4P | 18 | 8.0 | 0.080 | 10.5 | 2.18 | 3.08 |
| SMTDRRI127P-220□-4P | 22 | 6.8 | 0.096 | 9.0 | 1.99 | 2.81 |
| SMTDRRI127P-270□-4P | 27 | 6.5 | 0.12 | 8.4 | 1.78 | 2.52 |
| SMTDRRI127P-330□-4P | 33 | 5.6 | 0.15 | 7.6 | 1.59 | 2.25 |
| SMTDRRI127P-390□-4P | 39 | 5.5 | 0.16 | 6.5 | 1.54 | 2.18 |
| SMTDRRI127P-470□-4P | 47 | 5.2 | 0.18 | 6.0 | 1.45 | 2.05 |
| SMTDRRI127P-560□-4P | 56 | 4.5 | 0.19 | 5.6 | 1.41 | 2.00 |
| SMTDRRI127P-680□-4P | 68 | 4.1 | 0.21 | 5.0 | 1.35 | 1.90 |
| SMTDRRI127P-820□-4P | 82 | 3.8 | 0.28 | 4.1 | 1.16 | 1.65 |
| SMTDRRI127P-101□-4P | 100 | 3.4 | 0.30 | 3.6 | 1.13 | 1.59 |
| SMTDRRI127P-121□-4P | 120 | 3.2 | 0.41 | 3.2 | 0.96 | 1.36 |
| SMTDRRI127P-151□-4P | 150 | 2.8 | 0.46 | 3.0 | 0.91 | 1.29 |
| SMTDRRI127P-181□-4P | 180 | 2.5 | 0.51 | 2.7 | 0.86 | 1.22 |
| SMTDRRI127P-221□-4P | 220 | 2.3 | 0.69 | 2.5 | 0.74 | 1.05 |
| SMTDRRI127P-271□-4P | 270 | 2.1 | 0.90 | 2.1 | 0.65 | 0.92 |
| SMTDRRI127P-331□-4P | 330 | 1.9 | 1.02 | 2.0 | 0.61 | 0.86 |
| SMTDRRI127P-391□-4P | 390 | 1.7 | 1.12 | 1.8 | 0.58 | 0.82 |
| SMTDRRI127P-471□-4P | 470 | 1.6 | 1.43 | 1.6 | 0.50 | 0.70 |
| SMTDRRI127P-561□-4P | 560 | 1.5 | 1.69 | 1.5 | 0.47 | 0.67 |
| SMTDRRI127P-681□-4P | 680 | 1.3 | 2.29 | 1.4 | 0.41 | 0.58 |
| SMTDRRI127P-821□-4P | 820 | 1.2 | 2.55 | 1.3 | 0.39 | 0.55 |
| SMTDRRI127P-102□-4P | 1000 | 1.1 | 2.83 | 1.1 | 0.37 | 0.52 |

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.
2. DCR is for each winding. When leads are connected in parallel, DCR is half the value. When leads are connected in series, DCR is twice the value.
3. SRF measured using an Agilent/HP E4991A or equivalent. When leads are connected in parallel, SRF is the same value.
4. DC current, at which the inductance drops 30% (typ) from its value without current. It is the current flowing in one winding or the sum of the current flowing in both windings.
5. Equal current, when applied to each winding simultaneously, that causes a 40°C temperature rise from 25°C ambient.
6. Maximum current, when applied to one winding, that causes a 40°Ctemperature rise from 25°C ambient.
7. Electrical specifications at 25°C.



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## I SMTDRRI 127P series

| PART NO. | leads connected in parallel | | | | | leads connected in series | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L ±20% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | I rms (A) | L ±25% (uH) | DCR (Ω) Max. | I sat(A) 30%drop Typ. | SRF MHz Typ. | I rms (A) |
| SMTDRRI127P-4R7□-4P | 4.7 | 0.019 | 14.9 | 32.0 | 7.4 | 18.8 | 0.076 | 7.70 | 12.0 | 3.6 |
| SMTDRRI127P-5R6□-4P | 5.6 | 0.023 | 13.4 | 25.0 | 7.2 | 22.4 | 0.092 | 6.60 | 10.4 | 3.5 |
| SMTDRRI127P-6R8□-4P | 6.8 | 0.024 | 13.1 | 24.0 | 6.9 | 27.2 | 0.096 | 6.40 | 9.5 | 3.4 |
| SMTDRRI127P-8R2□-4P | 8.2 | 0.025 | 10.8 | 18.0 | 6.6 | 32.8 | 0.100 | 5.60 | 7.2 | 3.3 |
| SMTDRRI127P-100□-4P | 10 | 0.029 | 10.5 | 16.5 | 6.2 | 40.0 | 0.116 | 5.40 | 6.6 | 3.2 |
| SMTDRRI127P-120□-4P | 12 | 0.031 | 9.60 | 14.5 | 6.0 | 48.0 | 0.124 | 4.80 | 5.4 | 2.9 |
| SMTDRRI127P-150□-4P | 15 | 0.036 | 9.10 | 11.8 | 5.8 | 60.0 | 0.144 | 4.30 | 5.0 | 2.7 |
| SMTDRRI127P-180□-4P | 18 | 0.040 | 8.00 | 10.5 | 5.5 | 72.0 | 0.158 | 3.90 | 3.8 | 2.5 |
| SMTDRRI127P-220□-4P | 22 | 0.048 | 6.80 | 9.0 | 5.2 | 88.0 | 0.19 | 3.50 | 3.4 | 2.2 |
| SMTDRRI127P-270□-4P | 27 | 0.060 | 6.50 | 8.4 | 4.7 | 108 | 0.24 | 3.40 | 3.2 | 2.0 |
| SMTDRRI127P-330□-4P | 33 | 0.075 | 5.60 | 7.6 | 4.2 | 132 | 0.30 | 3.10 | 3.0 | 1.7 |
| SMTDRRI127P-390□-4P | 39 | 0.080 | 5.50 | 6.5 | 3.6 | 156 | 0.32 | 2.80 | 2.6 | 1.6 |
| SMTDRRI127P-470□-4P | 47 | 0.090 | 5.20 | 6.0 | 3.0 | 188 | 0.36 | 2.60 | 2.1 | 1.5 |
| SMTDRRI127P-560□-4P | 56 | 0.095 | 4.50 | 5.6 | 2.8 | 224 | 0.38 | 2.40 | 2.0 | 1.4 |
| SMTDRRI127P-680□-4P | 68 | 0.105 | 4.10 | 5.0 | 2.6 | 272 | 0.42 | 2.10 | 1.6 | 1.3 |
| SMTDRRI127P-820□-4P | 82 | 0.140 | 3.80 | 4.1 | 2.3 | 328 | 0.56 | 1.90 | 1.3 | 1.2 |
| SMTDRRI127P-101□-4P | 100 | 0.150 | 3.40 | 3.6 | 2.0 | 400 | 0.60 | 1.70 | 1.1 | 1.1 |
| SMTDRRI127P-121□-4P | 120 | 0.205 | 3.20 | 3.2 | 1.9 | 480 | 0.82 | 1.60 | 1.0 | 1.0 |
| SMTDRRI127P-151□-4P | 150 | 0.230 | 2.80 | 3.0 | 1.8 | 600 | 0.92 | 1.40 | 0.82 | 0.89 |
| SMTDRRI127P-181□-4P | 180 | 0.255 | 2.50 | 2.7 | 1.7 | 720 | 1.02 | 1.30 | 0.70 | 0.84 |
| SMTDRRI127P-221□-4P | 220 | 0.345 | 2.30 | 2.5 | 1.6 | 880 | 1.38 | 1.10 | 0.64 | 0.75 |
| SMTDRRI127P-271□-4P | 270 | 0.450 | 2.10 | 2.1 | 1.5 | 1080 | 1.80 | 1.00 | 0.55 | 0.71 |
| SMTDRRI127P-331□-4P | 330 | 0.510 | 1.90 | 2.0 | 1.3 | 1320 | 2.04 | 0.92 | 0.47 | 0.62 |
| SMTDRRI127P-391□-4P | 390 | 0.560 | 1.70 | 1.8 | 1.1 | 1560 | 2.24 | 0.84 | 0.41 | 0.53 |
| SMTDRRI127P-471□-4P | 470 | 0.765 | 1.60 | 1.6 | 0.87 | 1880 | 3.06 | 0.80 | 0.36 | 0.43 |
| SMTDRRI127P-561□-4P | 560 | 0.845 | 1.50 | 1.5 | 0.83 | 2240 | 3.38 | 0.73 | 0.31 | 0.40 |
| SMTDRRI127P-681□-4P | 680 | 1.145 | 1.30 | 1.4 | 0.76 | 2720 | 4.58 | 0.63 | 0.30 | 0.36 |
| SMTDRRI127P-821□-4P | 820 | 1.275 | 1.20 | 1.3 | 0.69 | 3280 | 5.10 | 0.58 | 0.24 | 0.33 |
| SMTDRRI127P-102□-4P | 1000 | 1.415 | 1.10 | 1.1 | 0.60 | 4000 | 5.66 | 0.56 | 0.20 | 0.30 |

1. Inductance shown for coupled inductor and for two inductors connected in parallel.
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LC meter or equivalent.
3. DCR is for both windings connected in parallel. DCR for each winding is twice the value.
4. SRF measured using an Agilent/HP E4991A or equivalent.
5. DC current at which the inductance drops 30% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. DCR is for both windings.
8. Inductance tolerance:4.7uH~100uH tolerance can be done “M” ,120uH~1000uH tolerance can be done “K”

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.


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