

PRODUCT IDENTIFICATION

SRRTC 0630 Y Z 100 M I 00
a b c d e f g h

- a: Series name
- b: Product dimensions (a x c)
- c: Sealing way (L: Cold seal Y: Heat seal)
- d: Lettering direction ☒
- e: Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)
- f: Inductance Tolerance (K:10% ; M:20% ; N:30%)
- g: Package(T:Tape/Reel、B: Bulk)
- h: Numbering (standard)

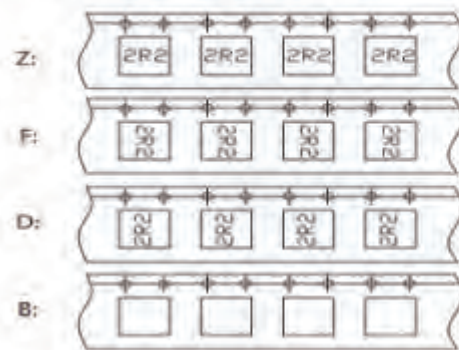
FEATURES

- Soft saturation.
- Very low acoustic noise and very low leakage flux noise.
- High current, low DCR, high efficiency.
- 100% Lead(Pb)-Free and RoHS compliant.
- High reliability.

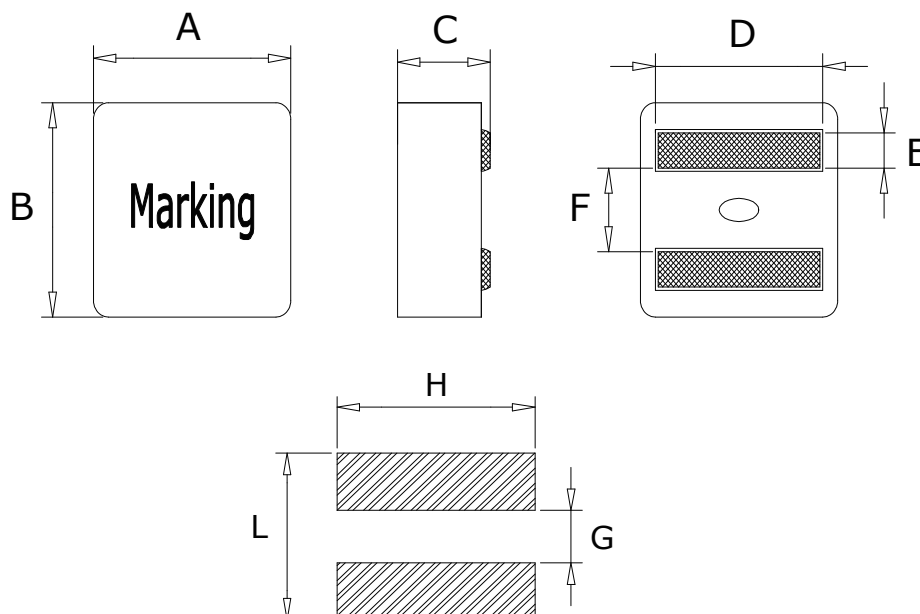
APPLICATIONS

- DC/DC converter
- Note PC power system, incl. IMVP-6

▶ Lettering direction



SHAPES AND DIMENSIONS



SHAPES AND DIMENSIONS

| Series | Dimensions(mm) | | | | | | | | |
|--------------|----------------|----------|----------|----------------|----------|----------|----------|----------|--------|
| | A | B | C | D | E | F | L | H | G |
| SRRTC.201610 | 2.0±0.20 | 1.6±0.20 | 1.0max | 2.0±0.2 | 0.5 Ref. | 0.8 Ref. | 2.1 Ref. | 1.7 Ref. | 0.5ref |
| SRRTC.252010 | 2.5±0.20 | 2.0±0.20 | 1.0max | 2.5±0.2 | 0.7 Ref. | 0.9 Ref. | 2.6 Ref. | 2.1 Ref. | 0.6ref |
| SRRTC.0420 | 4.1±0.20 | 4.1±0.20 | 1.9±0.2 | 3.4±0.3 | 0.88±0.3 | 1.7±0.3 | 3.4ref | 3.8ref | 1.4ref |
| SRRTC.0430 | 4.1±0.25 | 4.1±0.25 | 2.8±0.2 | 3.4±0.3 | 0.88±0.3 | 1.7±0.3 | 3.4ref | 3.8ref | 1.4ref |
| SRRTC.0520 | 5.5±0.20 | 5.3±0.20 | 1.9±0.2 | 4.3±0.3 | 1.1±0.3 | 2.3±0.3 | 4.5ref | 4.7ref | 2.0ref |
| SRRTC.0530 | 5.5±0.20 | 5.3±0.20 | 2.9±0.2 | 4.3±0.3 | 1.1±0.3 | 2.3±0.3 | 4.5ref | 4.7ref | 2.0ref |
| SRRTC.0550 | 5.5±0.20 | 5.3±0.20 | 4.8±0.2 | 4.3±0.3 | 1.1±0.3 | 2.3±0.3 | 4.5ref | 4.7ref | 2.0ref |
| SRRTC.0630 | 6.6±0.20 | 6.4±0.20 | 2.9±0.2 | See Spec table | 1.4±0.3 | 2.6±0.3 | 5.6ref | 5.6ref | 2.5ref |
| SRRTC.0650 | 6.6±0.20 | 6.4±0.20 | 4.8±0.2 | See Spec table | 1.4±0.3 | 2.6±0.3 | 5.6ref | 5.6ref | 2.5ref |
| SRRTC.0660 | 6.6±0.20 | 6.4±0.20 | 8.8±0.2 | 5.3±0.3 | 1.4±0.3 | 2.6±0.3 | 5.6ref | 5.6ref | 2.5ref |
| SRRTC.0720 | 7.8±0.25 | 7.6±0.2 | 1.85±0.2 | See Spec table | 1.75±0.3 | 3.15±0.3 | 7.4ref | 7.2ref | 4.8ref |
| SRRTC.0730 | 7.8±0.25 | 7.6±0.2 | 2.9±0.2 | See Spec table | 1.75±0.3 | 3.15±0.3 | 7.4ref | 7.2ref | 4.8ref |
| SRRTC.0770 | 7.8±0.25 | 7.6±0.2 | 6.7±0.3 | See Spec table | 1.75±0.3 | 3.15±0.3 | 7.8ref | 6.7ref | 4.8ref |
| SRRTC.0880 | 8.9±0.30 | 8.5±0.3 | 7.7±0.3 | See Spec table | 1.8±0.3 | 3.5±0.5 | 8.0ref | 7.0ref | 2.7ref |
| SRRTC.1010 | 11.9±0.3 | 11.0±0.3 | 9.7±0.3 | See Spec table | 2.4±0.3 | 4.4±0.5 | 10.5ref | 11.0ref | 3.7ref |
| SRRTC.1031 | 11.9±0.3 | 11.0±0.3 | 2.9±0.2 | 9.0±0.5 | 2.4±0.3 | 4.4±0.5 | 10.5ref | 11.0ref | 3.7ref |
| SRRTC.1060 | 11.9±0.3 | 11.0±0.3 | 5.7±0.3 | See Spec table | 2.4±0.3 | 4.4±0.5 | 10.5ref | 11.0ref | 3.7ref |
| SRRTC.1510 | 16.5±0.3 | 15.5±0.3 | 9.7±0.3 | 13.2±0.5 | 3.2±0.3 | 7.0±0.3 | 15.0ref | 15.0ref | 6.0ref |
| SRRTC.1513 | 16.5±0.3 | 15.5±0.3 | 12.7±0.3 | 13.2±0.5 | 3.2±0.3 | 7.0±0.3 | 15.0ref | 15.0ref | 6.0ref |
| SRRTC.1580 | 16.5±0.3 | 15.5±0.3 | 7.7±0.3 | 13.2±0.5 | 3.2±0.3 | 7.0±0.3 | 15.0ref | 15.0ref | 6.0ref |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A) | |
|------------------------|-----------------|-----------------------|---------------------------|-----------------------|------|-------------------------|------|
| | | | | Max. | Typ. | Max. | Typ. |
| SRRTC.201610.YBR24MT00 | 0.24 | 1/1 | 12.0 | 7.0 | 7.8 | 5.4 | 5.9 |
| SRRTC.201610.YBR33MT00 | 0.33 | 1/1 | 19.0 | 6.8 | 7.6 | 5.2 | 5.7 |
| SRRTC.201610.YBR47MT00 | 0.47 | 1/1 | 21.0 | 5.6 | 6.0 | 4.8 | 5.4 |
| SRRTC.201610.YB1R0MT00 | 1.0 | 1/1 | 42.0 | 4.2 | 4.5 | 4.2 | 4.6 |
| SRRTC.201610.YB1R5MT00 | 1.5 | 1/1 | 68.0 | 3.0 | 3.5 | 3.2 | 3.6 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A) | |
|------------------------|-----------------|-----------------------|---------------------------|-----------------------|------|-------------------------|------|
| | | | | Max. | Typ. | Max. | Typ. |
| SRRTC.252010.YBR24MT00 | 0.24 | 1/1 | 11.0 | 7.8 | 8.7 | 7.7 | 8.1 |
| SRRTC.252010.YBR47MT00 | 0.47 | 1/1 | 20.0 | 6.5 | 7.0 | 4.7 | 5.0 |
| SRRTC.252010.YB1R0MT00 | 1.0 | 1/1 | 30.0 | 5.0 | 5.4 | 4.5 | 4.7 |
| SRRTC.252010.YB1R5MT00 | 1.5 | 1/1 | 42.0 | 3.7 | 4.0 | 3.6 | 4.1 |
| SRRTC.252010.YB2R2MT00 | 2.2 | 1/1 | 65.0 | 3.2 | 3.5 | 2.6 | 3.3 |

Note:

Tolerance: N:±30% , M:±20% , K:±10%

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$ typ) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|-------------------------|
| | | | | Max. | Typ. | 20 $^{\circ}$ C Rise | 40 $^{\circ}$ C Rise |
| SRRTC.0420.YZR10MT00 | 0.10 | 100/0.1 | 2.42 | 33.0 | 38.0 | 13.5 | 18.0 |
| SRRTC.0420.YZR22MT00 | 0.22 | 100/0.1 | 4.60 | 18.8 | 19.5 | 13.0 | 16.8 |
| SRRTC.0420.YZR36MT00 | 0.36 | 100/0.1 | 6.30 | 15.0 | 17.0 | 11.0 | 14.5 |
| SRRTC.0420.YZR40MT00 | 0.40 | 100/0.1 | 7.73 | 13.5 | 15.5 | 10.0 | 14.0 |
| SRRTC.0420.YZR47MT00 | 0.47 | 100/0.1 | 8.58 | 13.0 | 14.5 | 9.0 | 12.5 |
| SRRTC.0420.YZR56MT00 | 0.56 | 100/0.1 | 9.30 | 12.6 | 14.0 | 8.5 | 12.0 |
| SRRTC.0420.YZR60MT00 | 0.60 | 100/0.1 | 9.52 | 12.3 | 13.7 | 8.0 | 11.7 |
| SRRTC.0420.YZR72MT00 | 0.72 | 100/0.1 | 11.6 | 10.6 | 12.0 | 7.6 | 10.5 |
| SRRTC.0420.YZ1R0MT00 | 1.0 | 100/0.1 | 14.6 | 8.8 | 9.6 | 6.8 | 9.6 |
| SRRTC.0420.YZ1R2MT00 | 1.2 | 100/0.1 | 17.9 | 7.8 | 9.0 | 6.6 | 9.0 |
| SRRTC.0420.YZ1R5MT00 | 1.5 | 100/0.1 | 23.5 | 7.4 | 8.0 | 5.8 | 7.6 |
| SRRTC.0420.YZ1R8MT00 | 1.8 | 100/0.1 | 28.0 | 7.0 | 7.5 | 5.2 | 7.0 |
| SRRTC.0420.YZ2R2MT00 | 2.2 | 100/0.1 | 38.7 | 6.0 | 6.5 | 4.6 | 5.6 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|-------------------------|
| | | | | Max. | Typ. | 20 $^{\circ}$ C Rise | 40 $^{\circ}$ C Rise |
| SRRTC.0430.YZR47MT00 | 0.47 | 100/0.1 | 7.26 | 15.0 | 17.0 | 10.0 | 14.0 |
| SRRTC.0430.YZR90MT00 | 0.9 | 100/0.1 | 10.1 | 9.0 | 10.0 | 8.2 | 11.2 |
| SRRTC.0430.YZ1R0MT00 | 1.0 | 100/0.1 | 10.1 | 9.2 | 9.8 | 8.0 | 11.0 |
| SRRTC.0430.YZ1R2MT00 | 1.2 | 100/0.1 | 11.5 | 8.7 | 9.2 | 7.8 | 9.8 |
| SRRTC.0430.YZ1R5MT00 | 1.5 | 100/0.1 | 13.2 | 7.0 | 8.0 | 7.0 | 9.0 |
| SRRTC.0430.YZ2R2MT00 | 2.2 | 100/0.1 | 22.6 | 6.1 | 7.0 | 6.0 | 7.8 |
| SRRTC.0430.YZ3R3MT00 | 3.3 | 100/0.1 | 28.6 | 5.3 | 6.2 | 5.0 | 6.6 |

Note:

Tolerance: N: \pm 30% , M: \pm 20% , K: \pm 10%

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C typ) from 25 $^{\circ}$ C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|-------------------------|
| | | | | Max. | Typ. | 20 $^{\circ}$ C Rise | 40 $^{\circ}$ C Rise |
| SRRTC.0520.YZR15MT00 | 0.15 | 100/0.1 | 4.60 | 27.0 | 30.0 | 13.9 | 18.8 |
| SRRTC.0520.YZR16MT00 | 0.16 | 100/0.1 | 4.60 | 27.0 | 30.0 | 13.9 | 18.8 |
| SRRTC.0520.YZR33MT00 | 0.33 | 100/0.1 | 7.00 | 24.0 | 26.0 | 10.5 | 14.4 |
| SRRTC.0520.YZR47MT00 | 0.47 | 100/0.1 | 8.05 | 20.0 | 22.0 | 10.1 | 14.1 |
| SRRTC.0520.YZR56MT00 | 0.56 | 100/0.1 | 9.54 | 16.0 | 19.0 | 9.9 | 13.9 |
| SRRTC.0520.YZR68MT00 | 0.68 | 100/0.1 | 10.2 | 14.0 | 16.0 | 9.6 | 13.4 |
| SRRTC.0520.YZR80MT00 | 0.80 | 100/0.1 | 11.8 | 13.5 | 15.5 | 9.4 | 13.0 |
| SRRTC.0520.YZR82MT00 | 0.82 | 100/0.1 | 12.7 | 13.0 | 15.0 | 8.5 | 12.0 |
| SRRTC.0520.YZ1R0MT00 | 1.0 | 100/0.1 | 13.8 | 12.8 | 14.5 | 7.5 | 10.5 |
| SRRTC.0520.YZ1R2MT00 | 1.2 | 100/0.1 | 16.3 | 12.2 | 14.0 | 6.8 | 9.40 |
| SRRTC.0520.YZ1R5MT00 | 1.5 | 100/0.1 | 18.7 | 11.7 | 13.3 | 6.4 | 8.80 |

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|-------------------------|
| | | | | Max. | Typ. | 20 $^{\circ}$ C Rise | 40 $^{\circ}$ C Rise |
| SRRTC.0530.YZR15MT00 | 0.15 | 100/0.1 | 2.31 | 32.5 | 36.0 | 14.3 | 22.2 |
| SRRTC.0530.YZR16MT00 | 0.16 | 100/0.1 | 2.33 | 32.0 | 35.0 | 14.2 | 22.2 |
| SRRTC.0530.YZR33MT00 | 0.33 | 100/0.1 | 3.52 | 26.0 | 28.0 | 13.8 | 19.2 |
| SRRTC.0530.YZR47MT00 | 0.47 | 100/0.1 | 4.13 | 24.0 | 26.0 | 13.7 | 18.4 |
| SRRTC.0530.YZR56MT00 | 0.56 | 100/0.1 | 4.52 | 20.2 | 22.2 | 13.6 | 17.7 |
| SRRTC.0530.YZR60MT00 | 0.60 | 100/0.1 | 4.52 | 20.0 | 22.0 | 13.6 | 17.7 |
| SRRTC.0530.YZR82MT00 | 0.82 | 100/0.1 | 5.78 | 17.6 | 19.7 | 9.9 | 12.9 |
| SRRTC.0530.YZ1R0MT00 | 1.0 | 100/0.1 | 7.60 | 14.3 | 16.5 | 9.0 | 12.2 |
| SRRTC.0530.YZ1R2MT00 | 1.2 | 100/0.1 | 9.70 | 13.5 | 15.0 | 8.5 | 11.0 |
| SRRTC.0530.YZ1R5MT00 | 1.5 | 100/0.1 | 11.2 | 12.5 | 14.0 | 8.0 | 10.5 |
| SRRTC.0530.YZ1R8MT00 | 1.8 | 100/0.1 | 12.7 | 11.3 | 12.3 | 7.6 | 10.1 |
| SRRTC.0530.YZ2R2MT00 | 2.2 | 100/0.1 | 14.5 | 9.0 | 10.0 | 7.2 | 9.7 |
| SRRTC.0530.YZ3R3MT00 | 3.3 | 100/0.1 | 23.1 | 8.7 | 9.5 | 5.9 | 8.1 |
| SRRTC.0530.YZ4R7MT00 | 4.7 | 100/0.1 | 36.3 | 7.0 | 8.2 | 4.3 | 5.9 |

Note:

Tolerance: N: \pm 30% , M: \pm 20% , K: \pm 10%

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C typ) from 25 $^{\circ}$ C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|-----------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise |
| SRRTC.0550.YZ5R6MT00 | 5.6 | 100/0.1 | 24.2 | 7.2 | 8.6 | 5.3 | 7.2 |
| SRRTC.0550.YZ6R8MT00 | 6.8 | 100/0.1 | 28.6 | 6.6 | 7.8 | 4.8 | 6.4 |
| SRRTC.0550.YZ8R2MT00 | 8.2 | 100/0.1 | 32.5 | 6.1 | 7.2 | 4.6 | 6.1 |
| SRRTC.0550.YZ100MT00 | 10 | 100/0.1 | 43.0 | 5.4 | 6.5 | 3.8 | 5.0 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|-----------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0630.YZR18MT00 | 0.18 | 100/0.1 | 1.75 | 36.0 | 40.0 | 24.0 | 32.0 | 5.30 |
| SRRTC.0630.YZR33MT00 | 0.33 | 100/0.1 | 2.50 | 28.0 | 32.0 | 20.0 | 25.0 | 5.55 |
| SRRTC.0630.YZR56MT00 | 0.56 | 100/0.1 | 3.31 | 25.0 | 29.0 | 17.0 | 22.0 | 5.30 |
| SRRTC.0630.YZR68MT00 | 0.68 | 100/0.1 | 5.17 | 21.0 | 25.0 | 15.0 | 20.0 | 5.30 |
| SRRTC.0630.YZ1R0MT00 | 1.0 | 100/0.1 | 6.05 | 18.0 | 23.0 | 13.0 | 18.0 | 5.20 |
| SRRTC.0630.YZ1R2MT00 | 1.2 | 100/0.1 | 7.40 | 16.0 | 22.0 | 12.0 | 16.0 | 5.15 |
| SRRTC.0630.YZ1R5MT00 | 1.5 | 100/0.1 | 9.13 | 15.5 | 20.0 | 11.0 | 15.0 | 5.15 |
| SRRTC.0630.YZ1R8MT00 | 1.8 | 100/0.1 | 10.2 | 13.0 | 18.2 | 10.0 | 14.0 | 5.10 |
| SRRTC.0630.YZ2R2MT00 | 2.2 | 100/0.1 | 12.2 | 11.0 | 15.9 | 7.00 | 10.0 | 5.05 |
| SRRTC.0630.YZ3R3MT00 | 3.3 | 100/0.1 | 20.8 | 9.00 | 12.2 | 6.00 | 8.00 | 5.00 |
| SRRTC.0630.YZ4R5MT00 | 4.5 | 100/0.1 | 25.3 | 8.00 | 10.0 | 5.00 | 7.00 | 5.00 |

Note:

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| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. ($m\Omega$) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0650.YZR82MT00 | 0.82 | 100/0.1 | 4.18 | 20.0 | 24.0 | 16.0 | 21.0 | 5.3 |
| SRRTC.0650.YZ1R0MT00 | 1.0 | 100/0.1 | 4.52 | 18.0 | 23.0 | 15.0 | 20.0 | 5.3 |
| SRRTC.0650.YZ1R2MT00 | 1.2 | 100/0.1 | 5.83 | 16.0 | 22.0 | 14.0 | 18.0 | 5.3 |
| SRRTC.0650.YZ1R5MT00 | 1.5 | 100/0.1 | 6.30 | 14.5 | 19.5 | 13.0 | 17.0 | 5.3 |
| SRRTC.0650.YZ1R8MT00 | 1.8 | 100/0.1 | 7.10 | 13.5 | 18.5 | 12.0 | 16.0 | 5.3 |
| SRRTC.0650.YZ2R2MT00 | 2.2 | 100/0.1 | 8.50 | 12.0 | 16.0 | 10.0 | 13.0 | 5.2 |
| SRRTC.0650.YZ3R3MT00 | 3.3 | 100/0.1 | 12.5 | 10.0 | 12.5 | 8.5 | 11.0 | 5.2 |
| SRRTC.0650.YZ4R3MT00 | 4.3 | 100/0.1 | 16.2 | 8.5 | 11.0 | 7.0 | 9.0 | 5.2 |
| SRRTC.0650.YZ4R7MT00 | 4.7 | 100/0.1 | 18.4 | 8.0 | 10.5 | 6.5 | 8.5 | 5.2 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. ($m\Omega$) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|--------------------------|------|-------------------------------|---------------|
| | | | | Max. | Typ. | 20°C Rise | 40 °C Rise |
| SRRTC.0660.YZ1R0MT00 | 1.0 | 100/0.1 | 4.4 | 19.0 | 24.0 | 16.0 | 21.0 |
| SRRTC.0660.YZ1R5MT00 | 1.5 | 100/0.1 | 6.1 | 15.0 | 20.0 | 13.5 | 17.5 |
| SRRTC.0660.YZ2R2MT00 | 2.2 | 100/0.1 | 8.1 | 12.5 | 16.5 | 11.0 | 14.0 |
| SRRTC.0660.YZ3R3MT00 | 3.3 | 100/0.1 | 12.3 | 11.0 | 13.0 | 9.0 | 12.0 |
| SRRTC.0660.YZ4R7MT00 | 4.7 | 100/0.1 | 14.4 | 9.3 | 10.5 | 8.5 | 11.0 |
| SRRTC.0660.YZ5R6MT00 | 5.6 | 100/0.1 | 15.9 | 8.7 | 9.9 | 7.6 | 10.0 |
| SRRTC.0660.YZ6R8MT00 | 6.8 | 100/0.1 | 20.8 | 8.1 | 9.2 | 7.0 | 9.0 |

Note:

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Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$ typ) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0720.YZR27MT00 | 0.27 | 100/0.1 | 3.5 | 32 | 35 | 16 | 21 | 6.6 |
| SRRTC.0720.YZR31MT00 | 0.31 | 100/0.1 | 4.8 | 31 | 34 | 14 | 20 | 6.2 |
| SRRTC.0720.YZR33MT00 | 0.33 | 100/0.1 | 4.8 | 31 | 34 | 13 | 19 | 6.2 |
| SRRTC.0720.YZR47MT00 | 0.47 | 100/0.1 | 6.2 | 25 | 28 | 12 | 17 | 6.2 |
| SRRTC.0720.YZR68MT00 | 0.68 | 100/0.1 | 9.2 | 23 | 25 | 10 | 13 | 6.2 |
| SRRTC.0720.YZ1R0MT00 | 1.0 | 100/0.1 | 10.8 | 20 | 23 | 8.0 | 11 | 6.2 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0730.YZ1R0MT00 | 1.0 | 100/0.1 | 5.00 | 28.0 | 30.0 | 16.1 | 21.8 | 6.6 |
| SRRTC.0730.YZ1R5MT00 | 1.5 | 100/0.1 | 8.25 | 23.5 | 25.0 | 12.0 | 15.3 | 6.6 |
| SRRTC.0730.YZ2R2MT00 | 2.2 | 100/0.1 | 13.7 | 17.0 | 19.0 | 10.0 | 13.0 | 6.2 |
| SRRTC.0730.YZ2R7MT00 | 2.7 | 100/0.1 | 15.4 | 13.5 | 16.0 | 9.20 | 11.4 | 6.2 |
| SRRTC.0730.YZ3R3MT00 | 3.3 | 100/0.1 | 18.0 | 13.0 | 15.0 | 8.00 | 10.0 | 6.2 |
| SRRTC.0730.YZ4R7MT00 | 4.7 | 100/0.1 | 26.7 | 12.2 | 13.5 | 6.90 | 9.00 | 6.2 |
| SRRTC.0730.YZ5R6MT00 | 5.6 | 100/0.1 | 33.2 | 11.5 | 12.5 | 5.30 | 7.30 | 6.2 |
| SRRTC.0730.YZ6R8MT00 | 6.8 | 100/0.1 | 42.5 | 11.0 | 12.0 | 4.50 | 6.80 | 6.2 |
| SRRTC.0730.YZ8R2MT00 | 8.2 | 100/0.1 | 48.7 | 9.0 | 10.2 | 3.00 | 5.90 | 6.2 |

Note:

Tolerance: N: $\pm 30\%$, M: $\pm 20\%$, K: $\pm 10\%$

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$ typ) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|---------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0770.YZ3R3M00 | 3.3 | 100/0.1 | 9.42 | 15.1 | 19.4 | 11.5 | 15.1 | 6.70 |
| SRRTC.0770.YZ4R7M00 | 4.7 | 100/0.1 | 13.50 | 14.0 | 15.5 | 10.5 | 13.6 | 6.70 |
| SRRTC.0770.YZ6R8M00 | 6.8 | 100/0.1 | 19.60 | 11.0 | 12.8 | 7.0 | 9.5 | 6.50 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.0880.YZ1R8MT00 | 1.8 | 100/0.1 | 4.0 | 24.0 | 28.0 | 18.0 | 24.0 | 7.2 |
| SRRTC.0880.YZ2R2MT00 | 2.2 | 100/0.1 | 4.3 | 22.0 | 25.0 | 16.0 | 21.5 | 7.2 |
| SRRTC.0880.YZ3R3MT00 | 3.3 | 100/0.1 | 7.3 | 20.0 | 23.0 | 13.5 | 18.0 | 6.9 |
| SRRTC.0880.YZ4R7MT00 | 4.7 | 100/0.1 | 9.8 | 17.0 | 19.0 | 10.5 | 14.6 | 6.9 |
| SRRTC.0880.YZ6R8MT00 | 6.8 | 100/0.1 | 14.3 | 12.5 | 14.5 | 8.0 | 11.3 | 6.9 |
| SRRTC.0880.YZ100MT00 | 10 | 100/0.1 | 22.9 | 10.0 | 11.0 | 6.6 | 8.7 | 6.9 |

Note:

Tolerance: N: $\pm 30\%$, M: $\pm 20\%$, K: $\pm 10\%$

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$ typ) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.1010.YZ3R3MT00 | 3.3 | 100/0.1 | 4.1 | 23.4 | 27.4 | 18.2 | 25.0 | 9.3 |
| SRRTC.1010.YZ4R7MT00 | 4.7 | 100/0.1 | 5.7 | 21.4 | 25.4 | 17.5 | 24.0 | 9.3 |
| SRRTC.1010.YZ5R6MT00 | 5.6 | 100/0.1 | 7.2 | 19.6 | 23.6 | 15.7 | 21.2 | 9.3 |
| SRRTC.1010.YZ6R8MT00 | 6.8 | 100/0.1 | 8.9 | 18.5 | 21.8 | 14.0 | 18.5 | 9.0 |
| SRRTC.1010.YZ8R2MT00 | 8.2 | 100/0.1 | 12.4 | 16.3 | 18.3 | 12.9 | 17.1 | 9.0 |
| SRRTC.1010.YZ100MT00 | 10 | 100/0.1 | 13.75 | 14.6 | 17.5 | 11.5 | 15.5 | 9.0 |
| SRRTC.1010.YZ150MT00 | 15 | 100/0.1 | 19.30 | 12.5 | 15.5 | 9.9 | 13.8 | 9.0 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|----------------------------|--------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise |
| SRRTC.1031.YZR28MT00 | 0.28 | 100/0.1 | 1.60 | 58.0 | 65.0 | 25.5 | 35.0 |
| SRRTC.1031.YZR56MT00 | 0.56 | 100/0.1 | 2.75 | 39.0 | 44.0 | 23.0 | 32.0 |
| SRRTC.1031.YZR82MT00 | 0.82 | 100/0.1 | 4.10 | 32.0 | 38.0 | 18.0 | 25.0 |
| SRRTC.1031.YZR90MT00 | 0.9 | 100/0.1 | 4.20 | 31.0 | 36.0 | 17.0 | 24.0 |
| SRRTC.1031.YZ1R0MT00 | 1.0 | 100/0.1 | 4.95 | 30.0 | 35.0 | 16.0 | 23.0 |
| SRRTC.1031.YZ1R5MT00 | 1.5 | 100/0.1 | 6.60 | 25.0 | 30.0 | 12.0 | 18.0 |

Note:

Tolerance: N: $\pm 30\%$, M: $\pm 20\%$, K: $\pm 10\%$

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$ typ) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A) ^{Typ} | | D (mm) ± 0.3 |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|--|--------------|------------------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise | |
| SRRTC.1060.YZR68MT00 | 0.68 | 100/0.1 | 1.50 | 50.0 | 55.0 | 22.5 | 34.0 | 9.5 |
| SRRTC.1060.YZ1R0MT00 | 1.0 | 100/0.1 | 2.32 | 44.0 | 48.0 | 20.0 | 28.5 | 9.0 |
| SRRTC.1060.YZ1R2MT00 | 1.2 | 100/0.1 | 2.64 | 40.0 | 45.0 | 18.0 | 26.5 | 9.0 |
| SRRTC.1060.YZ1R5MT00 | 1.5 | 100/0.1 | 3.30 | 36.0 | 40.0 | 16.0 | 24.5 | 9.0 |
| SRRTC.1060.YZ2R2MT00 | 2.2 | 100/0.1 | 4.84 | 30.0 | 35.0 | 14.0 | 20.0 | 9.0 |
| SRRTC.1060.YZ3R3MT00 | 3.3 | 100/0.1 | 7.70 | 25.0 | 28.0 | 11.4 | 16.8 | 9.0 |
| SRRTC.1060.YZ4R7MT00 | 4.7 | 100/0.1 | 10.72 | 22.0 | 25.0 | 8.7 | 14.0 | 9.0 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A) ^{Typ} | |
|----------------------|-----------------|-----------------------|---------------------------|-----------------------|------|--|--------------|
| | | | | Max. | Typ. | 20°C Rise | 40°C Rise |
| SRRTC.1510.YZ4R7MT00 | 4.7 | 100/0.1 | 3.8 | 39.0 | 43.0 | 22.0 | 30.0 |
| SRRTC.1510.YZ5R6MT00 | 5.6 | 100/0.1 | 4.2 | 34.0 | 38.0 | 21.0 | 28.0 |
| SRRTC.1510.YZ6R8MT00 | 6.8 | 100/0.1 | 4.6 | 31.0 | 36.0 | 20.0 | 26.0 |
| SRRTC.1510.YZ8R2MT00 | 8.2 | 100/0.1 | 7.2 | 28.0 | 32.0 | 19.0 | 25.0 |

Note:

Tolerance: N: $\pm 30\%$, M: $\pm 20\%$, K: $\pm 10\%$

Saturation Current: DC current at which the inductance drops approximate 30%^{typ} from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$ ^{typ}) from 25°C ambient;

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|------------------------------|--------------------------|------|-------------------------------|---------------|
| | | | | Max. | Typ. | 20°C Rise | 40 °C Rise |
| SRRTC.1513.YZ4R7MT00 | 4.7 | 100/0.1 | 3.30 | 40.0 | 44.0 | 23.0 | 31.0 |
| SRRTC.1513.YZ5R6MT00 | 5.6 | 100/0.1 | 3.90 | 35.0 | 40.0 | 22.0 | 29.0 |
| SRRTC.1513.YZ6R8MT00 | 6.8 | 100/0.1 | 4.20 | 32.0 | 37.0 | 21.0 | 27.0 |
| SRRTC.1513.YZ8R2MT00 | 8.2 | 100/0.1 | 5.74 | 29.0 | 33.0 | 20.0 | 26.0 |
| SRRTC.1513.YZ100MT00 | 10 | 100/0.1 | 7.00 | 27.0 | 30.0 | 19.0 | 25.0 |
| SRRTC.1513.YZ150MT00 | 15 | 100/0.1 | 7.50 | 21.0 | 25.5 | 16.0 | 22.0 |
| SRRTC.1513.YZ220MT00 | 22 | 100/0.1 | 13.86 | 19.0 | 22.0 | 12.0 | 17.0 |
| SRRTC.1513.YZ330MT00 | 33 | 100/0.1 | 22.20 | 16.0 | 19.0 | 9.0 | 14.0 |

ELECTRICAL CHARACTERISTICS

| Part Number | L (μ H) | Test Freq. (KHz/V) | DCR Max. (m Ω) | Saturation Current(A) | | Heat Rating Current (A)Typ | |
|----------------------|-----------------|-----------------------|------------------------------|--------------------------|------|-------------------------------|---------------|
| | | | | Max. | Typ. | 20°C Rise | 40 °C Rise |
| SRRTC.1580.YZ2R0MT00 | 2.0 | 100/0.1 | 2.21 | 52.0 | 57.0 | 29.5 | 40.0 |
| SRRTC.1580.YZ2R2MT00 | 2.2 | 100/0.1 | 2.48 | 49.0 | 55.0 | 28.0 | 37.0 |
| SRRTC.1580.YZ3R0MT00 | 3.0 | 100/0.1 | 3.00 | 41.0 | 46.0 | 26.0 | 34.5 |
| SRRTC.1580.YZ4R2MT00 | 4.2 | 100/0.1 | 4.68 | 33.0 | 38.0 | 20.5 | 27.0 |
| SRRTC.1580.YZ5R3MT00 | 5.3 | 100/0.1 | 5.34 | 31.0 | 35.0 | 19.5 | 26.0 |
| SRRTC.1580.YZ6R2MT00 | 6.2 | 100/0.1 | 6.50 | 31.0 | 34.0 | 17.0 | 23.0 |
| SRRTC.1580.YZ7R2MT00 | 7.2 | 100/0.1 | 7.20 | 29.0 | 32.0 | 15.0 | 21.0 |
| SRRTC.1580.YZ8R2MT00 | 8.2 | 100/0.1 | 7.92 | 25.0 | 28.0 | 13.0 | 19.0 |

Note:

Tolerance: N:±30% , M:±20% , K:±10%

Saturation Current: DC current at which the inductance drops approximate 30%typ from its value without current;

Heat Rating Current: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$ typ) from 25°C ambient;