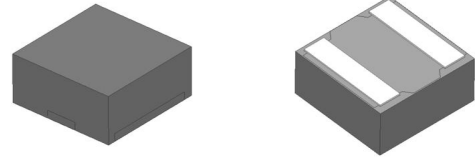




SMD MOLDING POWER INDUCTOR



● FEATURES 特性

- 1.磁屏蔽结构,T core 工艺,闭合磁路,抗电磁干扰强.
- 2.低DCR和ACR损耗.
- 3.在高频和高温环境下保持优良的温升电流及饱和电流特性.
- 4.满足AEC-Q200 Grade1(-40-125℃).

● PART NUMBERING SYSTEM 品名系统

CKSTF 0603S - 1uH - M

A B C D

A: Type 型号 B: External Dimensions 外形尺寸

C: Indutance 电感值 D: Indutance Tolerance 电感值公差 (M:±20% N:±30%)

● EXTERNAL DIMENSIONS 外形尺寸 (Unit:mm)

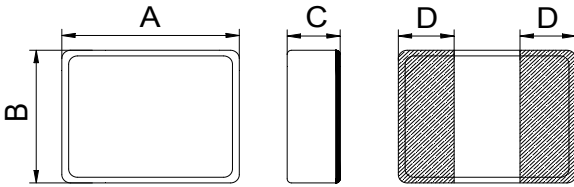
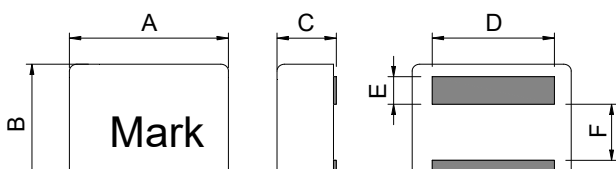


Fig 1

| TYPE(型号) | A | B | C | D | Fig |
|-----------|----------|----------|----------|---------|-----|
| CKSTT0415 | 4.0±0.3 | 4.0±0.3 | 1.5 Max | 1.1±0.3 | 1 |
| CKSTT0402 | 4.0±0.3 | 4.0±0.3 | 2.1 Max | 1.1±0.3 | 1 |
| CKSTT0403 | 4.0±0.3 | 4.0±0.3 | 3.1 Max. | 1.1±0.3 | 1 |
| CKSTT0404 | 4.0±0.3 | 4.0±0.3 | 4.1 Max. | 1.1±0.3 | 1 |
| CKSTT0502 | 5.28±0.3 | 5.48±0.3 | 2.1 Max | 1.7±0.3 | 1 |
| CKSTT0503 | 5.28±0.3 | 5.48±0.3 | 3.1 Max. | 1.7±0.3 | 1 |
| CKSTT0505 | 5.28±0.3 | 5.48±0.3 | 5.1 Max. | 1.7±0.3 | 1 |
| CKSTT0615 | 6.4±0.3 | 6.6±0.3 | 1.5 Max | 2.1±0.3 | 1 |

● EXTERNAL DIMENSIONS 外形尺寸 (Unit:mm)



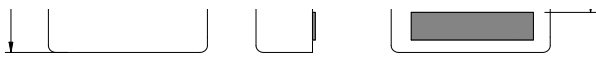
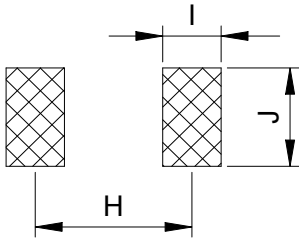


Fig 2

| TYPE(型号) | A | B | C | D | E | F | Fig |
|------------|----------|----------|-----------|-----------|----------|----------|-----|
| CKSTF0402S | 4.0±0.2 | 4.0±0.2 | 2.1 Max. | 3.25 Typ. | 0.85±0.2 | 1.57±0.3 | 2 |
| CKSTW0402S | 4.0±0.3 | 4.0±0.3 | 2.1 Max. | 3.25 Typ. | 0.85±0.2 | 1.57±0.3 | 2 |
| CKSTF0403S | 4.0±0.2 | 4.0±0.2 | 3.1 Max. | 3.25 Typ. | 0.85±0.2 | 1.57±0.3 | 2 |
| CKSTW0403S | 4.0±0.3 | 4.0±0.3 | 3.1 Max. | 3.25 Typ. | 0.85±0.2 | 1.57±0.3 | 2 |
| CKSTW0404S | 4.0±0.3 | 4.0±0.3 | 4.1 Max. | 3.25 Typ. | 0.85±0.2 | 1.57±0.3 | 2 |
| CKSTF0502S | 5.48±0.2 | 5.28±0.2 | 2.1 Max. | 4.2 Typ. | 1.0±0.2 | 2.3±0.3 | 2 |
| CKSTW0502S | 5.48±0.3 | 5.28±0.3 | 2.1 Max. | 4.2 Typ. | 1.0±0.2 | 2.3±0.3 | 2 |
| CKSTW0503S | 5.48±0.3 | 5.28±0.3 | 3.1 Max. | 4.2 Typ. | 1.0±0.2 | 2.3±0.3 | 2 |
| CKSTF0603S | 6.6±0.2 | 6.4±0.2 | 3.1 Max. | 5.0 Typ. | 1.25±0.2 | 2.8±0.3 | 2 |
| CKSTW0603S | 6.6±0.3 | 6.4±0.3 | 3.1 Max. | 5.0 Typ. | 1.25±0.2 | 2.8±0.3 | 2 |
| CKSTW0606S | 6.6±0.3 | 6.4±0.3 | 6.1 Max. | 5.0 Typ. | 1.25±0.2 | 2.8±0.3 | 2 |
| CKSTW0805S | 8.6±0.3 | 8.1±0.3 | 5.0 Max. | 6.5 Typ. | 1.6±0.2 | 3.56±0.3 | 2 |
| CKSTW0806S | 8.6±0.3 | 8.1±0.3 | 6.0 Max. | 6.5 Typ. | 1.6±0.2 | 3.56±0.3 | 2 |
| CKSTW0807S | 8.6±0.3 | 8.1±0.3 | 7.0 Max. | 6.5 Typ. | 1.6±0.2 | 3.56±0.3 | 2 |
| CKSTW0808S | 8.6±0.3 | 8.1±0.3 | 8.0 Max. | 6.5 Typ. | 1.6±0.2 | 3.56±0.3 | 2 |
| CKSTW1003S | 11.3±0.5 | 10.0±0.5 | 3.0 Max. | 8.0 Typ. | 2.2±0.2 | 4.45±0.3 | 2 |
| CKSTF1004S | 11.3±0.5 | 10.0±0.5 | 4.0 Max. | 8.0 Typ. | 2.2±0.2 | 4.45±0.3 | 2 |
| CKSTW1006S | 11.3±0.5 | 10.0±0.5 | 6.0 Max. | 8.0 Typ. | 2.2±0.2 | 4.45±0.3 | 2 |
| CKSTW1010S | 11.3±0.5 | 10.0±0.5 | 10.0 Max. | 8.0 Typ. | 2.2±0.2 | 4.45±0.3 | 2 |
| CKSTW1507S | 16.2±0.3 | 15.2±0.3 | 7.0 Max. | 12.5 Typ. | 3.0±0.3 | 7.6±0.3 | 2 |
| CKSTW1508S | 16.2±0.3 | 15.2±0.3 | 8.0 Max. | 12.5 Typ. | 3.0±0.3 | 7.6±0.3 | 2 |
| CKSTW1510S | 16.2±0.3 | 15.2±0.3 | 10.0 Max. | 12.5 Typ. | 3.0±0.3 | 7.6±0.3 | 2 |
| CKSTW1513S | 16.2±0.3 | 15.2±0.3 | 13.0 Max. | 12.5 Typ. | 3.0±0.3 | 7.6±0.3 | 2 |

● RECOMMENDED PATTERNS



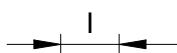
CKSTT Series

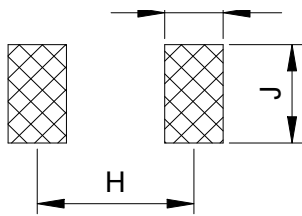
| TYPE(型号) | H | I | J |
|-----------|-----|-----|-----|
| CKSTT0415 | 3.5 | 1.5 | 4.5 |
| CKSTT0402 | 3.5 | 1.5 | 4.5 |
| CKSTT0403 | 3.5 | 1.5 | 4.5 |
| CKSTT0404 | 3.5 | 1.5 | 4.5 |
| CKSTT0502 | 3.8 | 2.2 | 6 |
| CKSTT0503 | 3.8 | 2.2 | 6 |
| CKSTT0505 | 3.8 | 2.2 | 6 |
| CKSTT0615 | 5 | 2.5 | 7 |

CKSTF,CKSTW Series

| TYPE(型号) | H | I | J |
|------------|------|------|-----|
| CKSTF0402S | 2.37 | 1.1 | 3.8 |
| CKSTW0402S | 2.37 | 1.1 | 3.8 |
| CKSTF0403S | 2.37 | 1.1 | 3.8 |
| CKSTW0403S | 2.37 | 1.1 | 3.8 |
| CKSTW0404S | 2.37 | 1.1 | 3.8 |
| CKSTF0502S | 3.3 | 1.3 | 4.7 |
| CKSTW0502S | 3.3 | 1.3 | 4.7 |
| CKSTW0503S | 3.3 | 1.3 | 4.7 |
| CKSTF0603S | 4.05 | 1.55 | 5.5 |
| CKSTW0603S | 4.05 | 1.55 | 5.5 |
| CKSTW0606S | 4.05 | 1.55 | 5.5 |
| CKSTW0805S | 5.2 | 2.0 | 7.0 |

● RECOMMENDED PATTERNS





CKSTF,CKSTW Series

| TYPE(型号) | H | I | J |
|------------|------|-----|------|
| CKSTW0806S | 5.2 | 2.0 | 7.0 |
| CKSTW0807S | 5.2 | 2.0 | 7.0 |
| CKSTW0808S | 5.2 | 2.0 | 7.0 |
| CKSTW1003S | 6.65 | 2.6 | 9.0 |
| CKSTF1004S | 6.65 | 2.6 | 9.0 |
| CKSTW1006S | 6.65 | 2.6 | 9.0 |
| CKSTW1010S | 6.65 | 2.6 | 9.0 |
| CKSTW1507S | 10.6 | 3.5 | 13.2 |
| CKSTW1508S | 10.6 | 3.5 | 13.2 |
| CKSTW1510S | 10.6 | 3.5 | 13.2 |
| CKSTW1513S | 10.6 | 3.5 | 13.2 |



● SPECIFICATION TABLE:

CKSTT0415 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0415-0.33uH/M | 0.33 \pm 20% | 4.40 | 5.20 | 16.0 | 16.1 |
| CKSTT0415-0.47uH/M | 0.47 \pm 20% | 5.50 | 6.60 | 14.1 | 14.0 |
| CKSTT0415-1uH/M | 1 \pm 20% | 12.50 | 15.00 | 9.0 | 10.2 |
| CKSTT0415-1.5uH/M | 1.5 \pm 20% | 19.00 | 22.80 | 7.5 | 7.3 |
| CKSTT0415-2.2uH/M | 2.2 \pm 20% | 27.00 | 33.00 | 5.2 | 6.4 |
| CKSTT0415-4.7uH/M | 4.7 \pm 20% | 69.00 | 83.00 | 3.6 | 4.3 |
| CKSTT0415-6.8uH/M | 6.8 \pm 20% | 80.00 | 96.00 | 3.6 | 3.6 |
| CKSTT0415-10uH/M | 10 \pm 20% | 102.00 | 124.00 | 2.1 | 2.2 |

CKSTF0402S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTF0402S-0.4uH/M | 0.4 \pm 20% | 4.00 | 4.60 | 14.0 | 20.1 |
| CKSTF0402S-0.47uH/M | 0.47 \pm 20% | 4.80 | 5.80 | 15.0 | 17.0 |
| CKSTF0402S-0.6uH/M | 0.6 \pm 20% | 6.80 | 7.50 | 10.4 | 14.1 |
| CKSTF0402S-1uH/M | 1.0 \pm 20% | 10.00 | 11.00 | 9.7 | 10.5 |
| CKSTF0402S-1.2uH/M | 1.2 \pm 20% | 11.20 | 13.50 | 9.0 | 9.7 |
| CKSTF0402S-1.5uH/M | 1.5 \pm 20% | 20.30 | 23.30 | 7.1 | 7.7 |
| CKSTF0402S-2.2uH/M | 2.2 \pm 20% | 22.50 | 25.80 | 7.0 | 8.0 |
| CKSTF0402S-3.3uH/M | 3.3 \pm 20% | 34.20 | 38.30 | 6.0 | 5.5 |
| CKSTF0402S-4.7uH/M | 4.7 \pm 20% | 47.20 | 54.20 | 4.8 | 5.2 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW0402S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0402S-0.22uH/M | 0.22 \pm 20% | 3.00 | 3.30 | 19.4 | 19.0 |
| CKSTW0402S-0.33uH/M | 0.33 \pm 20% | 3.00 | 3.30 | 17.0 | 23.0 |

CKSTT0402 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0402-0.47uH/M | 0.47 \pm 20% | 4.00 | 4.80 | 17.2 | 20.1 |
| CKSTT0402-0.6uH/M | 0.6 \pm 20% | 4.90 | 5.70 | 12.0 | 18.5 |
| CKSTT0402-0.68uH/M | 0.68 \pm 20% | 5.90 | 6.80 | 11.0 | 16.7 |
| CKSTT0402-1uH/M | 1 \pm 20% | 7.50 | 8.50 | 8.8 | 12.4 |
| CKSTT0402-1.5uH/M | 1.5 \pm 20% | 13.00 | 14.30 | 9.0 | 11.1 |
| CKSTT0402-2.2uH/M | 2.2 \pm 20% | 18.10 | 20.00 | 7.5 | 9.0 |
| CKSTT0402-3.3uH/M | 3.3 \pm 20% | 28.60 | 31.50 | 7.0 | 7.3 |
| CKSTT0402-4.7uH/M | 4.7 \pm 20% | 43.00 | 47.30 | 6.0 | 5.6 |
| CKSTT0402-5.6uH/M | 5.6 \pm 20% | 48.70 | 53.60 | 4.0 | 5.3 |
| CKSTT0402-6.8uH/M | 6.8 \pm 20% | 74.40 | 85.00 | 5.0 | 4.0 |
| CKSTT0402L-6.8uH/M | 6.8 \pm 20% | 63.60 | 70.00 | 4.5 | 4.2 |
| CKSTT0402-8.2uH/M | 8.2 \pm 20% | 71.00 | 78.10 | 4.5 | 4.1 |
| CKSTT0402-10uH/M | 10 \pm 20% | 100.00 | 115.00 | 4.0 | 2.7 |
| CKSTT0402-15uH/M | 15 \pm 20% | 210.00 | 242.00 | 2.2 | 1.8 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current; Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}$ C; for Typ. Value, ΔT is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTF0403S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTF0403S-0.1uH/M | 0.1 \pm 20% | 1.50 | 1.80 | 26.5 | 27.0 |
| CKSTF0403S-0.3uH/M | 0.3 \pm 20% | 2.50 | 2.90 | 19.0 | 24.0 |
| CKSTF0403S-0.47uH/M | 0.47 \pm 20% | 3.40 | 3.90 | 14.2 | 21.2 |
| CKSTF0403S-1uH/M | 1 \pm 20% | 8.70 | 9.60 | 9.0 | 10.9 |
| CKSTF0403S-1.5uH/M | 1.5 \pm 20% | 15.10 | 16.60 | 8.5 | 8.1 |
| CKSTF0403S-2.2uH/M | 2.2 \pm 20% | 20.10 | 22.10 | 6.6 | 7.8 |
| CKSTF0403S-3.3uH/M | 3.3 \pm 20% | 25.00 | 27.50 | 7.0 | 6.6 |
| CKSTF0403S-4.7uH/M | 4.7 \pm 20% | 36.00 | 39.60 | 6.0 | 5.3 |

CKSTW0403S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0403S-0.4uH/M | 0.4 \pm 20% | 2.80 | 3.20 | 15.8 | 22.5 |
| CKSTW0403S-0.62uH/M | 0.62 \pm 20% | 4.10 | 4.60 | 12.7 | 15.0 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTT0403 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0403-1uH/M | 1 \pm 20% | 6.50 | 7.20 | 10.3 | 13.0 |
| CKSTT0403-1.2uH/M | 1.2 \pm 20% | 8.50 | 9.40 | 12.3 | 12.2 |
| CKSTT0403-1.5uH/M | 1.5 \pm 20% | 8.50 | 9.40 | 8.8 | 12.2 |
| CKSTT0403-2.2uH/M | 2.2 \pm 20% | 13.50 | 15.00 | 7.7 | 8.7 |
| CKSTT0403-3.3uH/M | 3.3 \pm 20% | 22.30 | 24.60 | 7.0 | 7.3 |
| CKSTT0403L-3.3uH/M | 3.3 \pm 20% | 19.90 | 21.90 | 6.5 | 7.5 |
| CKSTT0403-4.7uH/M | 4.7 \pm 20% | 35.20 | 38.80 | 6.0 | 5.5 |
| CKSTT0403L-4.7uH/M | 4.7 \pm 20% | 26.70 | 30.70 | 6.7 | 6.7 |
| CKSTT0403-5.6uH/M | 5.6 \pm 20% | 31.50 | 34.70 | 4.2 | 5.5 |
| CKSTT0403-6.8uH/M | 6.8 \pm 20% | 43.50 | 47.90 | 4.3 | 4.7 |
| CKSTT0403-8.2uH/M | 8.2 \pm 20% | 50.60 | 55.70 | 3.7 | 4.2 |
| CKSTT0403-10uH/M | 10 \pm 20% | 63.00 | 69.50 | 5.0 | 3.9 |
| CKSTT0403-12uH/M | 12 \pm 20% | 78.50 | 86.50 | 3.3 | 3.4 |

CKSTW0404S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0404S-0.15uH/M | 0.15 \pm 20% | 1.50 | 1.80 | 21.0 | 30.2 |
| CKSTW0404S-0.3uH/M | 0.3 \pm 20% | 2.20 | 2.60 | 15.3 | 24.6 |
| CKSTW0404S-0.47uH/M | 0.47 \pm 20% | 2.80 | 3.20 | 14.6 | 20.8 |
| CKSTW0404S-1uH/M | 1 \pm 20% | 4.80 | 5.60 | 9.3 | 14.8 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}$ C; for Typ. Value, ΔT is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



岑科科技(深圳)集团有限公司

SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.

CKSTT0404 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|-------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |

| | | | | | |
|-------------------|---------|--------|--------|-----|------|
| CKSTT0404-1.5uH/M | 1.5±20% | 6.80 | 7.90 | 7.9 | 12.5 |
| CKSTT0404-2.2uH/M | 2.2±20% | 10.10 | 11.50 | 7.0 | 11.0 |
| CKSTT0404-3.3uH/M | 3.3±20% | 15.00 | 16.60 | 5.8 | 8.7 |
| CKSTT0404-4.7uH/M | 4.7±20% | 22.20 | 24.50 | 4.8 | 7.1 |
| CKSTT0404-6.8uH/M | 6.8±20% | 31.50 | 34.70 | 4.3 | 5.6 |
| CKSTT0404-8.2uH/M | 8.2±20% | 37.40 | 41.20 | 4.0 | 5.4 |
| CKSTT0404-10uH/M | 10±20% | 56.00 | 67.20 | 4.0 | 4.7 |
| CKSTT0404L-10uH/M | 10±20% | 45.80 | 50.50 | 5.5 | 5.0 |
| CKSTT0404-15uH/M | 15±20% | 74.50 | 82.20 | 2.5 | 3.6 |
| CKSTT0404-22uH/M | 22±20% | 104.00 | 114.70 | 1.9 | 3.3 |

Remark: ● All test data is reference to 25°C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}\text{C}$; for Typ. Value, ΔT is approximate 40°C .
- Operat between temperature range -40°C to $+125^{\circ}\text{C}$ (Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTF0502S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTF0502S-0.16uH/M | 0.16 \pm 20% | 1.60 | 1.90 | 24.2 | 30.0 |
| CKSTF0502S-0.33uH/M | 0.33 \pm 20% | 2.70 | 3.20 | 17.1 | 24.4 |
| CKSTF0502S-0.56uH/M | 0.56 \pm 20% | 4.50 | 5.40 | 14.1 | 17.7 |
| CKSTF0502S-1.2uH/M | 1.2 \pm 20% | 9.40 | 11.30 | 9.5 | 13.0 |

CKSTW0502S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0502S-0.16uH/M | 0.16 \pm 20% | 1.60 | 1.90 | 29.0 | 30.0 |
| CKSTW0502S-0.33uH/M | 0.33 \pm 20% | 2.70 | 3.20 | 21.0 | 24.4 |

CKSTT0502 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0502-0.47uH/M | 0.47 \pm 20% | 3.70 | 4.30 | 15.7 | 22.1 |
| CKSTT0502-0.68uH/M | 0.68 \pm 20% | 4.70 | 5.60 | 17.5 | 18.3 |
| CKSTT0502-0.82uH/M | 0.82 \pm 20% | 4.70 | 5.60 | 12.3 | 18.3 |
| CKSTT0502-1uH/M | 1 \pm 20% | 5.90 | 7.10 | 14.0 | 17.1 |
| CKSTT0502-1.2uH/M | 1.2 \pm 20% | 5.90 | 7.10 | 11.2 | 17.1 |
| CKSTT0502-1.5uH/M | 1.5 \pm 20% | 9.40 | 11.30 | 11.9 | 13.0 |
| CKSTT0502-1.8uH/M | 1.8 \pm 20% | 9.40 | 11.30 | 8.3 | 13.0 |
| CKSTT0502-2.2uH/M | 2.2 \pm 20% | 12.70 | 15.30 | 9.8 | 11.9 |
| CKSTT0502-3.3uH/M | 3.3 \pm 20% | 18.80 | 22.60 | 6.5 | 10.4 |
| CKSTT0502-4.7uH/M | 4.7 \pm 20% | 29.30 | 35.20 | 6.8 | 8.5 |
| CKSTT0502-5.6uH/M | 5.6 \pm 20% | 33.50 | 40.20 | 4.9 | 8.0 |
| CKSTT0502-6.8uH/M | 6.8 \pm 20% | 51.00 | 61.20 | 4.5 | 5.1 |
| CKSTT0502-8.2uH/M | 8.2 \pm 20% | 56.10 | 67.40 | 4.1 | 4.8 |



CKSTW0503S Series

| PART NUMBER | INDUCTANCE | DCR (m Ω) @25 $^{\circ}$ C | Saturation | Heat Rating |
|-------------|------------|------------------------------------|------------|-------------|
|-------------|------------|------------------------------------|------------|-------------|

| PART NUMBER | (μ H) | Typical | Maximum | Typical | Typical |
|--------------------|---------------|---------|---------|---------|---------|
| CKSTW0503S-2.2uH/M | 2.2 \pm 20% | 13.20 | 14.50 | 9.2 | 9.7 |
| CKSTW0503S-3.3uH/M | 3.3 \pm 20% | 21.20 | 23.30 | 8.7 | 8.1 |
| CKSTW0503S-4.7uH/M | 4.7 \pm 20% | 30.00 | 36.00 | 6.7 | 6.9 |

CKSTT0503 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|-------------------|-----------------------|------------------------------------|---------|---|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0503-0.8uH/M | 0.8 \pm 20% | 3.80 | 4.60 | 18.6 | 21.1 |
| CKSTT0503-0.9uH/M | 0.9 \pm 20% | 4.00 | 4.80 | 14.5 | 19.8 |
| CKSTT0503-1uH/M | 1 \pm 20% | 4.80 | 5.80 | 17.0 | 17.8 |
| CKSTT0503-1.2uH/M | 1.2 \pm 20% | 4.80 | 5.80 | 13.0 | 16.9 |
| CKSTT0503-1.5uH/M | 1.5 \pm 20% | 6.70 | 7.80 | 14.4 | 15.4 |
| CKSTT0503-1.8uH/M | 1.8 \pm 20% | 6.70 | 7.80 | 10.6 | 15.4 |
| CKSTT0503-2.2uH/M | 2.2 \pm 20% | 9.20 | 10.60 | 11.0 | 12.9 |
| CKSTT0503-3.3uH/M | 3.3 \pm 20% | 11.90 | 14.00 | 8.4 | 10.3 |
| CKSTT0503-4.7uH/M | 4.7 \pm 20% | 17.30 | 20.80 | 6.7 | 8.8 |
| CKSTT0503-5.6uH/M | 5.6 \pm 20% | 23.60 | 26.50 | 6.0 | 8.0 |
| CKSTT0503-6.8uH/M | 6.8 \pm 20% | 25.50 | 30.60 | 5.5 | 7.4 |
| CKSTT0503-8.2uH/M | 8.2 \pm 20% | 32.90 | 37.00 | 5.0 | 6.5 |
| CKSTT0503-10uH/M | 10 \pm 20% | 37.60 | 42.40 | 5.5 | 6.2 |
| CKSTT0503-12uH/M | 12 \pm 20% | 50.00 | 56.50 | 4.0 | 5.4 |
| CKSTT0503-15uH/M | 15 \pm 20% | 67.00 | 75.10 | 3.6 | 4.5 |
| CKSTT0503-18uH/M | 18 \pm 20% | 78.00 | 93.60 | 3.3 | 4.1 |
| CKSTT0503-22uH/M | 22 \pm 20% | 106.00 | 118.80 | 3.0 | 3.6 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current; Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTT0505 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|-------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0505-1.8uH/M | 1.8 \pm 20% | 6.50 | 7.80 | 11.4 | 15.3 |
| CKSTT0505-2.2uH/M | 2.2 \pm 20% | 6.80 | 8.20 | 10.9 | 13.8 |
| CKSTT0505-3.3uH/M | 3.3 \pm 20% | 10.00 | 11.50 | 9.0 | 11.3 |
| CKSTT0505-4.7uH/M | 4.7 \pm 20% | 13.40 | 15.60 | 8.5 | 9.7 |
| CKSTT0505-5.6uH/M | 5.6 \pm 20% | 16.60 | 18.30 | 7.3 | 8.1 |
| CKSTT0505-6.8uH/M | 6.8 \pm 20% | 20.20 | 22.30 | 7.0 | 7.6 |
| CKSTT0505-8.2uH/M | 8.2 \pm 20% | 22.60 | 25.00 | 6.8 | 7.2 |
| CKSTT0505-10uH/M | 10 \pm 20% | 30.00 | 33.00 | 5.5 | 6.2 |
| CKSTT0505-12uH/M | 12 \pm 20% | 34.60 | 38.10 | 5.4 | 5.3 |
| CKSTT0505-15uH/M | 15 \pm 20% | 45.30 | 50.00 | 4.8 | 4.7 |
| CKSTT0505-18uH/M | 18 \pm 20% | 56.50 | 62.50 | 3.7 | 4.5 |
| CKSTT0505-22uH/M | 22 \pm 20% | 72.10 | 79.50 | 3.8 | 4.0 |
| CKSTT0505-33uH/M | 33 \pm 20% | 107.00 | 118.00 | 2.5 | 3.2 |

CKSTT0615 Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|-------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTT0615-3.3uH/M | 3.3 \pm 20% | 39.00 | 46.00 | 6.4 | 4.0 |
| CKSTT0615-6.8uH/M | 6.8 \pm 20% | 73.00 | 84.00 | 5.0 | 4.0 |
| CKSTT0615-10uH/M | 10 \pm 20% | 96.00 | 110.00 | 4.0 | 3.2 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW0603S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0603S-0.33uH/M | 0.33 \pm 20% | 1.50 | 1.80 | 34.0 | 32.0 |
| CKSTW0603S-0.47uH/M | 0.47 \pm 20% | 2.20 | 2.70 | 28.0 | 25.0 |
| CKSTW0603S-0.56uH/M | 0.56 \pm 20% | 2.50 | 2.90 | 29.0 | 24.0 |
| CKSTW0603S-0.68uH/M | 0.68 \pm 20% | 2.80 | 3.40 | 24.0 | 23.0 |
| CKSTW0603S-0.82uH/M | 0.82 \pm 20% | 3.40 | 4.00 | 22.0 | 21.0 |
| CKSTW0603S-1uH/M | 1 \pm 20% | 4.20 | 4.90 | 18.6 | 18.1 |
| CKSTW0603S-1.2uH/M | 1.2 \pm 20% | 4.60 | 5.40 | 17.5 | 16.5 |
| CKSTW0603S-1.5uH/M | 1.5 \pm 20% | 6.20 | 7.30 | 15.6 | 15.0 |
| CKSTW0603S-1.8uH/M | 1.8 \pm 20% | 7.00 | 8.10 | 14.7 | 14.0 |
| CKSTW0603S-2.2uH/M | 2.2 \pm 20% | 8.70 | 10.30 | 15.0 | 12.0 |
| CKSTW0603S-3.3uH/M | 3.3 \pm 20% | 13.10 | 15.40 | 10.4 | 10.5 |
| CKSTW0603S-4.7uH/M | 4.7 \pm 20% | 17.50 | 21.00 | 11.0 | 10.0 |
| CKSTW0603S-5.6uH/M | 5.6 \pm 20% | 18.90 | 22.20 | 9.4 | 9.4 |
| CKSTW0603S-6.8uH/M | 6.8 \pm 20% | 23.60 | 28.00 | 8.4 | 8.5 |
| CKSTW0603S-8.2uH/M | 8.2 \pm 20% | 33.00 | 38.00 | 7.2 | 7.5 |
| CKSTW0603S-10uH/M | 10 \pm 20% | 35.50 | 40.90 | 7.0 | 7.1 |
| CKSTW0603S-12uH/M | 12 \pm 20% | 44.00 | 51.00 | 6.3 | 6.1 |
| CKSTW0603S-15uH/M | 15 \pm 20% | 50.00 | 58.00 | 4.6 | 5.8 |
| CKSTW0603S-18uH/M | 18 \pm 20% | 55.80 | 64.20 | 4.4 | 5.4 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW0606S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|----------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0606SL-0.68uH/M | 0.68 \pm 20% | 2.00 | 2.30 | 26.5 | 22.7 |
| CKSTW0606SL-1uH/M | 1 \pm 20% | 2.50 | 2.90 | 23.0 | 22.0 |
| CKSTW0606SL-1.2uH/M | 1.2 \pm 20% | 2.90 | 3.40 | 21.0 | 21.5 |
| CKSTW0606SL-1.5uH/M | 1.5 \pm 20% | 3.30 | 3.80 | 20.1 | 20.2 |
| CKSTW0606SL-1.8uH/M | 1.8 \pm 20% | 3.80 | 4.30 | 17.5 | 19.7 |
| CKSTW0606SL-2.2uH/M | 2.2 \pm 20% | 4.30 | 4.80 | 16.0 | 17.2 |
| CKSTW0606SL-3.3uH/M | 3.3 \pm 20% | 5.90 | 6.50 | 13.4 | 16.6 |
| CKSTW0606S-4.7uH/M | 4.7 \pm 20% | 11.10 | 13.10 | 13.6 | 12.4 |
| CKSTW0606SL-4.7uH/M | 4.7 \pm 20% | 9.10 | 10.10 | 10.2 | 13.5 |
| CKSTW0606S-5.6uH/M | 5.6 \pm 20% | 14.40 | 15.90 | 11.8 | 10.0 |
| CKSTW0606SL-5.6uH/M | 5.6 \pm 20% | 10.60 | 11.70 | 9.6 | 12.6 |
| CKSTW0606S-6.8uH/M | 6.8 \pm 20% | 15.30 | 17.60 | 9.2 | 9.3 |
| CKSTW0606SL-6.8uH/M | 6.8 \pm 20% | 12.70 | 14.00 | 8.9 | 11.5 |
| CKSTW0606S-8.2uH/M | 8.2 \pm 20% | 21.30 | 24.50 | 9.7 | 8.6 |
| CKSTW0606SL-8.2uH/M | 8.2 \pm 20% | 15.20 | 16.80 | 8.1 | 10.1 |
| CKSTW0606S-10uH/M | 10 \pm 20% | 27.00 | 29.80 | 8.0 | 7.0 |
| CKSTW0606SL-10uH/M | 10 \pm 20% | 18.50 | 20.40 | 7.3 | 9.1 |
| CKSTW0606SL-12uH/M | 12 \pm 20% | 22.00 | 24.20 | 6.7 | 8.3 |
| CKSTW0606S-15uH/M | 15 \pm 20% | 39.70 | 43.70 | 5.8 | 6.0 |
| CKSTW0606SL-15uH/M | 15 \pm 20% | 28.20 | 31.10 | 5.8 | 7.4 |
| CKSTW0606SL-18uH/M | 18 \pm 20% | 33.90 | 37.30 | 6.3 | 6.4 |
| CKSTW0606S-22uH/M | 22 \pm 20% | 55.10 | 60.60 | 6.0 | 5.0 |
| CKSTW0606SL-22uH/M | 22 \pm 20% | 42.60 | 46.90 | 5.1 | 5.8 |
| CKSTW0606S-33uH/M | 33 \pm 20% | 77.50 | 85.00 | 4.1 | 3.9 |
| CKSTW0606SL-33uH/M | 33 \pm 20% | 63.10 | 69.50 | 4.0 | 4.9 |
| CKSTW0606SL-47uH/M | 47 \pm 20% | 97.00 | 107.00 | 3.2 | 3.7 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}C$; for Typ. Value, ΔT is approximate $40^{\circ}C$.
- Operat between temperature range $-40^{\circ}C$ to $+125^{\circ}C$ (Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW0805S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0805S-3.3uH/M | 3.3 \pm 20% | 6.60 | 7.90 | 25.0 | 16.3 |
| CKSTW0805S-22uH/M | 22 \pm 20% | 39.30 | 47.10 | 6.2 | 6.6 |

CKSTW0806S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0806S-4.7uH/M | 4.7 \pm 20% | 8.60 | 9.90 | 25.0 | 14.5 |

CKSTW0807S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0807S-4.7uH/M | 4.7 \pm 20% | 7.50 | 9.00 | 18.0 | 16.0 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}$ C; for Typ. Value, ΔT is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW0808S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW0808S-1uH/M | 1 \pm 20% | 2.00 | 2.30 | 34.0 | 35.0 |
| CKSTW0808S-2.2uH/M | 2.2 \pm 20% | 3.80 | 4.40 | 25.2 | 22.5 |
| CKSTW0808S-4.7uH/M | 4.7 \pm 20% | 7.50 | 8.70 | 18.0 | 16.0 |
| CKSTW0808S-6.8uH/M | 6.8 \pm 20% | 11.40 | 13.00 | 14.2 | 12.3 |
| CKSTW0808S-10uH/M | 10 \pm 20% | 16.30 | 18.70 | 12.0 | 10.0 |
| CKSTW0808S-22uH/M | 22 \pm 20% | 30.40 | 35.00 | 7.0 | 8.0 |
| CKSTW0808S-47uH/M | 47 \pm 20% | 71.00 | 81.70 | 4.7 | 4.8 |

CKSTW1003S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1003S-0.16uH/M | 0.16 \pm 20% | 0.70 | 0.80 | 88.0 | 50.0 |
| CKSTW1003S-0.33uH/M | 0.33 \pm 20% | 1.22 | 1.40 | 68.0 | 40.0 |
| CKSTW1003S-0.56uH/M | 0.56 \pm 20% | 2.50 | 2.75 | 44.0 | 32.0 |
| CKSTW1003S-1uH/M | 1 \pm 20% | 4.00 | 4.50 | 35.0 | 25.0 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTF1004S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|---------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTF1004S-0.47uH/M | 0.47 \pm 20% | 0.95 | 1.15 | 46.0 | 36.0 |
| CKSTF1004S-0.68uH/M | 0.68 \pm 20% | 1.30 | 1.50 | 39.0 | 33.0 |
| CKSTF1004S-1uH/M | 1 \pm 20% | 2.10 | 2.40 | 36.0 | 25.0 |
| CKSTF1004S-1.5uH/M | 1.5 \pm 20% | 2.80 | 3.10 | 26.0 | 20.0 |
| CKSTF1004S-2.2uH/M | 2.2 \pm 20% | 4.50 | 5.00 | 22.0 | 15.0 |
| CKSTF1004S-3.3uH/M | 3.3 \pm 20% | 7.50 | 8.30 | 16.2 | 13.0 |
| CKSTF1004S-4.7uH/M | 4.7 \pm 20% | 9.50 | 10.50 | 15.2 | 12.0 |
| CKSTF1004S-5.6uH/M | 5.6 \pm 20% | 13.50 | 14.90 | 14.1 | 11.0 |
| CKSTF1004S-6.8uH/M | 6.8 \pm 20% | 15.00 | 16.50 | 12.0 | 10.0 |
| CKSTF1004S-8.2uH/M | 8.2 \pm 20% | 16.70 | 18.40 | 11.0 | 9.5 |
| CKSTF1004S-10uH/M | 10 \pm 20% | 17.80 | 19.60 | 10.0 | 9.0 |

CKSTW1006S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1006S-1.0uH/M | 1.0 \pm 20% | 1.60 | 1.90 | 50.0 | 30.0 |
| CKSTW1006S-1.2uH/M | 1.2 \pm 20% | 2.00 | 2.20 | 49.0 | 29.0 |
| CKSTW1006S-1.5uH/M | 1.5 \pm 20% | 2.00 | 2.20 | 42.0 | 29.0 |
| CKSTW1006S-2.2uH/M | 2.2 \pm 20% | 3.50 | 4.00 | 32.0 | 24.0 |
| CKSTW1006S-3.3uH/M | 3.3 \pm 20% | 4.90 | 5.60 | 26.0 | 19.0 |
| CKSTW1006S-4.7uH/M | 4.7 \pm 20% | 6.30 | 7.30 | 25.0 | 17.2 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, Δ T<40 $^{\circ}$ C; for Typ. Value, Δ T is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW1010S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1010S-1.5uH/M | 1.5 \pm 20% | 1.60 | 1.76 | 36.6 | 40.5 |
| CKSTW1010S-2.2uH/M | 2.2 \pm 20% | 2.50 | 2.80 | 34.0 | 32.0 |
| CKSTW1010S-3.3uH/M | 3.3 \pm 20% | 3.70 | 4.10 | 27.4 | 25.0 |
| CKSTW1010S-4.7uH/M | 4.7 \pm 20% | 5.20 | 5.70 | 25.4 | 24.0 |
| CKSTW1010S-5.6uH/M | 5.6 \pm 20% | 6.30 | 6.93 | 23.6 | 21.2 |
| CKSTW1010S-6.8uH/M | 6.8 \pm 20% | 8.10 | 8.90 | 21.8 | 18.5 |
| CKSTW1010S-8.2uH/M | 8.2 \pm 20% | 11.70 | 12.90 | 18.3 | 17.1 |
| CKSTW1010S-10uH/M | 10 \pm 20% | 13.40 | 14.70 | 17.5 | 15.5 |
| CKSTW1010S-15uH/M | 15 \pm 20% | 16.90 | 18.60 | 15.5 | 13.8 |

CKSTW1507S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1507S-5.3uH/M | 5.3 \pm 20% | 4.20 | 4.80 | 34.0 | 27.0 |
| CKSTW1507S-8.2uH/M | 8.2 \pm 20% | 6.70 | 7.40 | 26.5 | 20.0 |
| CKSTW1507S-10uH/M | 10 \pm 20% | 8.00 | 9.00 | 23.5 | 16.0 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}$ C; for Typ. Value, ΔT is approximate 40 $^{\circ}$ C.
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 60V



CKSTW1508S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1508S-1.8uH/M | 1.8 \pm 20% | 1.61 | 1.93 | 57.0 | 43.8 |
| CKSTW1508S-2.2uH/M | 2.2 \pm 20% | 1.91 | 2.29 | 51.0 | 40.0 |
| CKSTW1508S-3uH/M | 3 \pm 20% | 2.28 | 2.74 | 45.9 | 37.6 |
| CKSTW1508S-4.5uH/M | 4.5 \pm 20% | 3.44 | 4.13 | 37.2 | 28.2 |
| CKSTW1508S-5.3uH/M | 5.3 \pm 20% | 4.20 | 5.00 | 33.3 | 27.0 |
| CKSTW1508S-6.1uH/M | 6.1 \pm 20% | 5.40 | 6.50 | 31.0 | 23.1 |

CKSTW1510S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|--------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1510S-4.7uH/M | 4.7 \pm 20% | 3.25 | 3.70 | 40.0 | 30.0 |
| CKSTW1510S-6.8uH/M | 6.8 \pm 20% | 4.17 | 4.60 | 36.0 | 26.0 |
| CKSTW1510S-8.2uH/M | 8.2 \pm 20% | 5.50 | 6.60 | 31.0 | 25.0 |
| CKSTW1510S-10uH/M | 10 \pm 20% | 6.50 | 7.80 | 27.8 | 23.3 |
| CKSTW1510S-15uH/M | 15 \pm 20% | 9.17 | 12.40 | 24.0 | 18.0 |
| CKSTW1510S-22uH/M | 22 \pm 20% | 14.50 | 16.00 | 19.0 | 14.0 |
| CKSTW1510S-33uH/M | 33 \pm 20% | 18.70 | 20.00 | 16.7 | 12.0 |

CKSTW1513S Series

| PART NUMBER | INDUCTANCE (μ H) | DCR (m Ω) @25 $^{\circ}$ C | | Saturation Current DC Amps. Isat (A) | Heat Rating Current DC Amps. Irms (A) |
|-------------------|--------------------------|------------------------------------|---------|--|---|
| | | Typical | Maximum | Typical | Typical |
| CKSTW1513S-15uH/M | 15 \pm 20% | 6.80 | 7.50 | 25.5 | 22.0 |

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition: 1MHz, 0.1Vrms
- Isat: Max.Value, DC current at which the inductance drops less than 30% from its value without current;
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- Irms: For Max. Value, $\Delta T < 40^{\circ}C$; for Typ. Value, ΔT is approximate $40^{\circ}C$.
- Operat between temperature range $-40^{\circ}C$ to $+125^{\circ}C$ (Including self - temperature rise)
- Absolute maximum voltage: DC 60V