



## SMD MOLDING POWER INDUCTOR CKST Series

### ● FEATURES 特性

1.磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装。

Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high density installation.

2.小体积,大电流,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。

Small volume, large current, in high frequency and high temperature environment to maintain excellent temperature current and saturation current characteristics.

3.低损耗合金粉末压铸,低电阻,结构牢固,产品精准度高。

Low loss alloy powder die casting, low resistance. Firm structure, high precision of products.

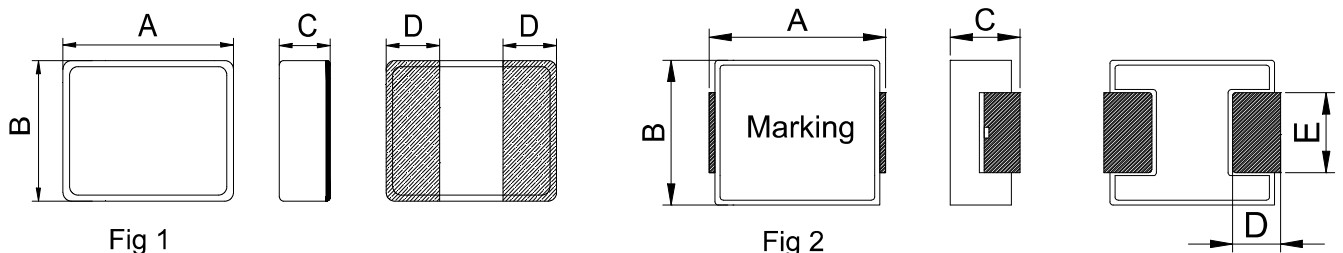


### ● APPLICATIONS 用途

PAD,笔记本电脑,台式机,服务器,音箱,网通,安防,手机,智能家居等

PAD, laptop, desktop, server, audio, netcom, security, mobile phone, smart home and so on

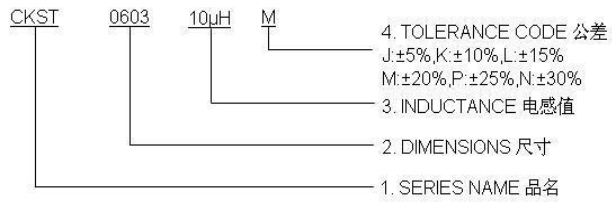
### ● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



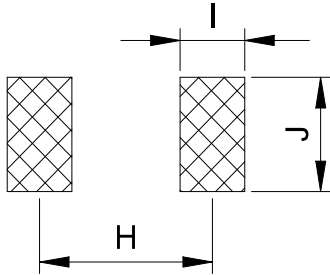
TYPE(型号)	A	B	C	D	E	Fig
CKST201210	2.0±0.2	1.2±0.2	1.0 Max	0.6±0.3	/	1
CKST201610	2.0±0.2	1.6±0.2	1.0 Max	0.6±0.3	/	1
CKST252010	2.5±0.2	2.0±0.2	1.0 Max	0.8±0.3	/	1
CKST252012	2.5±0.2	2.0±0.2	1.2 Max	0.8±0.3	/	1
CKST322512	3.2±0.2	2.5±0.2	1.2 Max	0.8±0.3	/	1
CKST353220	3.5±0.2	3.2±0.2	2.0 Max	0.7±0.2	/	1
CKSTT0410	4.0±0.3	4.0±0.3	1.0 Max	1.1±0.3	/	1
CKST04012P	4.4±0.35	4.2±0.25	1.2 Max	0.8±0.3	2.0±0.3	2
CKST0402	4.6±0.25	4.1±0.35	2.0 Max	0.76±0.3	1.5±0.3	2
CKST0502	5.7±0.25	5.1±0.35	2.0 Max	1.3±0.3	2.3±0.3	2
CKST0503	5.7±0.25	5.1±0.35	3.0 Max	1.3±0.3	2.3±0.3	2
CKSTT0610	6.6±0.2	6.4±0.2	1.0 Max	1.6±0.3	/	1
CKSTF0615	6.4±0.2	6.6±0.2	1.5 Max	2.1±0.3	/	1
CKST0603	7.4 Max	6.6±0.2	3.0 Max	1.6±0.3	3.0±0.2	2
CKST0605	7.5 Max	6.6±0.2	5.0 Max	1.6±0.3	3.0±0.2	2
CKSTF0817	7.8±0.2	7.8±0.2	1.7 Max	2.6±0.3	/	1
CKST1003	11.6 Max.	10.1±0.3	3.0 Max	2.5±0.5	3.0±0.5	2
CKST1004	11.6 Max.	10.1±0.3	4.0 Max	2.5±0.5	3.0±0.5	2
CKST1005	11.6 Max.	10.1±0.3	5.0 Max	2.5±0.5	3.0±0.5	2
CKST1205	13.8 Max.	12.6±0.3	5.0 Max	2.7±0.7	3.0±0.5/3.5±0.5	2
CKST1206	13.8 Max.	12.6±0.3	6.0 Max	2.7±0.7	3.0±0.5/3.5±0.5	2
CKST1707	17.5±1.0	17.5 Max.	7.0 Max	2.5±0.5	11.94±0.3	2



● PART NUMBERING SYSTEM 品名系统



● Recommended patterns



TYPE(型号)	H	I	J
CKST201210	1.5	1	1.5
CKST201610	1.5	1	1.8
CKST252010	2	1.2	2.2
CKST252012	2	1.2	2.2
CKST322512	2.5	1.2	2.9
CKST353220	3	1	3.5
CKSTT0410	3.5	1.5	4.5
CKST04012P	3.7	1.26	2.5
CKST0402	3.7	1.26	2.5
CKST0502	4.1	1.9	2.8
CKST0503	4.1	1.9	2.8
CKSTT0610	5.2	2.0	7.0
CKSTF0615	5.0	2.5	7.0
CKST0603	6.05	2.35	3.5
CKST0605	6.05	2.35	3.5
CKSTF0817	5.5	3.0	8.4
CKST1003	9.5	3.5	4.0
CKST1004	9.5	3.5	4.0
CKST1005	9.5	3.5	4.0
CKST1205	10.5	4	5.5
CKST1206	10.5	4	5.5
CKST1707	13.8	3.4	12.6



● SPECIFICATION TABLE:

CKST201210

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST201210-0.47uH/M	0.47±20%	26.0	31.0	6.1	5.4	4.3	4.0
CKST201210-1uH/M	1±20%	60.0	70.0	4.2	3.5	3.6	3.0
CKST201210-2.2uH/M	2.2±20%	125.0	145.0	2.7	2.4	2.2	2.0

CKST201610

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST201610-0.24uH/M	0.24±20%	18.0	21.0	6.7	6.1	5.5	5.0
CKST201610-0.33uH/M	0.33±20%	20.0	23.0	6.5	6.0	5.3	4.7
CKST201610-0.47uH/M	0.47±20%	23.0	28.0	5.6	5.0	5.0	4.5
CKST201610-0.68uH/M	0.68±20%	30.0	35.0	5.1	4.8	4.3	3.8
CKST201610-1uH/M	1±20%	43.0	49.0	4.2	4.0	4.0	3.4
CKST201610-1.5uH/M	1.5±20%	66.0	74.0	3.5	3.2	3.2	2.8
CKST201610-2.2uH/M	2.2±20%	94.0	110.0	3.0	2.7	2.7	2.5
CKST201610-3.3uH/M	3.3±20%	188.0	216.0	2.2	2.0	1.8	1.5
CKST201610-4.7uH/M	4.7±20%	250.0	280.0	2.0	1.7	1.4	1.2

Remark: 1. All test data is reference to 25°C ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value, ΔT<40°C; for Typ. Value, ΔT is approximate 40°C.

5. Operat between temperature range -40°C to +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 25V



**CKST252010**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25℃		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST252010-0.22uH/M	0.22±20%	15.0	19.0	8.3	8.0	5.7	5.1
CKST252010-0.33uH/M	0.33±20%	21.0	24.0	7.3	6.5	5.0	4.5
CKST252010-0.47uH/M	0.47±20%	23.0	27.0	6.1	5.6	4.8	4.3
CKST252010-0.68uH/M	0.68±20%	25.0	30.0	5.7	5.0	4.5	4.0
CKST252010-1uH/M	1±20%	40.0	46.0	4.5	4.0	3.7	3.4
CKST252010-1.5uH/M	1.5±20%	60.0	69.0	4.1	3.2	3.3	3.0
CKST252010-2.2uH/M	2.2±20%	82.0	94.0	3.5	3.0	2.5	2.2
CKST252010-4.7uH/M	4.7±20%	223.0	256.0	2.3	2.0	1.36	1.22
CKST252010L-4.7uH/M	4.7±20%	209.0	230.0	2.1	1.8	1.6	1.4
CKST252010-6.8uH/M	6.8±20%	251.0	290.0	2.1	1.8	1.3	1.1
CKST252010-10uH/M	10±20%	388.0	450.0	1.5	1.3	1.2	1.0

**CKST252012**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25℃		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST252012-0.24uH/M	0.24±20%	16.0	19.0	9.0	8.5	6.4	5.6
CKST252012-0.33uH/M	0.33±20%	16.0	19.0	7.5	6.6	6.4	5.6
CKST252012-0.47uH/M	0.47±20%	21.0	24.0	6.5	5.7	4.7	4.2
CKST252012-0.68uH/M	0.68±20%	23.0	30.0	5.3	4.6	4.5	4.0
CKST252012-1uH/M	1±20%	32.0	36.0	4.8	4.3	4.1	3.6
CKST252012-1.5uH/M	1.5±20%	46.0	53.0	4.2	3.6	3.7	3.4
CKST252012-2.2uH/M	2.2±20%	70.0	84.0	3.5	3.0	2.7	2.4
CKST252012-3.3uH/M	3.3±20%	100.0	120.0	2.5	2.2	2.0	1.7
CKST252012-4.7uH/M	4.7±20%	144.0	167.0	2.4	2.0	1.8	1.6
CKST252012-6.8uH/M	6.8±20%	234.0	269.0	1.9	1.5	1.6	1.4
CKST252012-10uH/M	10±20%	310.0	360.0	1.7	1.5	1.4	1.2

**Remark:** 1. All test data is reference to 25℃ ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.

5. Operat between temperature range -40℃ to +125℃(Including self - temperature rise)

6. Absolute maximum voltage: DC 25V



**CKST322512**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST322512-0.47uH/M	0.47±20%	16.0	19.0	8.2	7.5	7.0	6.5
CKST322512-1uH/M	1±20%	26.0	30.0	6.5	5.7	5.5	5.0
CKST322512-1.5uH/M	1.5±20%	38.0	44.0	5.0	4.5	4.5	4.0
CKST322512-2.2uH/M	2.2±20%	58.0	67.0	4.5	4.0	4.1	3.7
CKST322512-3.3uH/M	3.3±20%	77.0	88.0	3.6	3.3	3.3	3.0
CKST322512-4.7uH/M	4.7±20%	113.0	130.0	3.0	2.7	3.0	2.6
CKST322512-6.8uH/M	6.8±20%	180.0	207.0	2.8	2.4	1.6	1.3
CKST322512-10uH/M	10±20%	250.0	288.0	1.9	1.5	1.0	0.9

**CKST353220**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKST353220-0.47uH/M	0.47±20%	13.0	15.0	11.0	9.0	8.5	8.0
CKST353220-1uH/M	1±20%	20.0	24.0	7.5	7.0	7.0	6.6
CKST353220-1.5uH/M	1.5±20%	28.0	33.0	7.1	6.6	5.5	5.2
CKST353220-2.2uH/M	2.2±20%	33.0	40.0	6.0	5.5	5.0	4.5
CKST353220-3.3uH/M	3.3±20%	58.0	64.0	5.5	5.0	4.0	3.5
CKST353220-4.7uH/M	4.7±20%	70.0	80.0	4.2	3.7	3.5	3.2
CKST353220-6.8uH/M	6.8±20%	151.0	174.0	3.3	2.8	2.9	2.6
CKST353220-10uH/M	10±20%	175.0	200.0	3.0	2.5	2.6	2.3

**Remark:** 1. All test data is reference to 25°C ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value, ΔT<40°C; for Typ. Value, ΔT is approximate 40°C.

5. Operat between temperature range -40°C to +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 25V



**CKSTT0410**

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKSTT0410-0.47 $\mu$ H/M	0.47 $\pm$ 20%	17.0	20.0	8.5	7.5	7.5	6.5
CKSTT0410-1 $\mu$ H/M	1 $\pm$ 20%	33.0	38.0	6.5	5.5	3.7	3.4
CKSTT0410-2.2 $\mu$ H/M	2.2 $\pm$ 20%	58.0	67.0	5.3	4.7	3.6	3.2
CKSTT0410-4.7 $\mu$ H/M	4.7 $\pm$ 20%	124.0	143.0	3.5	3.0	2.8	2.5
CKSTT0410-6.8 $\mu$ H/M	6.8 $\pm$ 20%	155.0	180.0	3.0	2.5	2.3	2.1
CKSTT0410-10 $\mu$ H/M	10 $\pm$ 20%	210.0	245.0	2.4	2.0	2.1	1.9

**CKST04012P**

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST04012P-0.15 $\mu$ H/M	0.15 $\pm$ 20%	8.0	9.0	12.0	6.8
CKST04012P-0.22 $\mu$ H/M	0.22 $\pm$ 20%	8.3	11.0	8.8	6.5
CKST04012P-0.33 $\mu$ H/M	0.33 $\pm$ 20%	13.5	19.0	6.7	5.7
CKST04012P-0.47 $\mu$ H/M	0.47 $\pm$ 20%	16.0	21.0	5.4	5.2
CKST04012P-0.68 $\mu$ H/M	0.68 $\pm$ 20%	21.0	36.0	4.8	4.2
CKST04012P-1 $\mu$ H/M	1 $\pm$ 20%	40.0	47.0	4.4	3.8
CKST04012P-1.5 $\mu$ H/M	1.5 $\pm$ 20%	50.0	75.0	3.2	2.7
CKST04012P-2.2 $\mu$ H/M	2.2 $\pm$ 20%	73.0	83.0	2.4	2.2

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value,  $\Delta T < 40^{\circ}$ C; for Typ. Value,  $\Delta T$  is approximate 40 $^{\circ}$ C.

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 25V



**CKST0402**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST0402-0.1uH/N	0.1±30%	3.5	4.0	25.0	12.0
CKST0402-0.22uH/M	0.22±20%	6.0	6.6	12.5	9.0
CKST0402-0.33uH/M	0.33±20%	8.7	12.5	11.0	8.0
CKST0402-0.47uH/M	0.47±20%	12.5	14.0	10.0	7.0
CKST0402-0.56uH/M	0.56±20%	14.0	16.0	8.0	6.5
CKST0402-0.68uH/M	0.68±20%	16.0	18.0	8.0	5.2
CKST0402-1uH/M	1±20%	24.0	27.0	7.0	4.5
CKST0402-1.5uH/M	1.5±20%	38.0	46.0	6.0	4.0
CKST0402-2.2uH/M	2.2±20%	52.0	58.0	5.0	3.0
CKST0402-3.3uH/M	3.3±20%	74.0	87.0	4.0	2.5
CKST0402-4.7uH/M	4.7±20%	100.0	126.0	3.0	2.2
CKST0402-6.8uH/M	6.8±20%	162.0	178.0	2.5	2.0
CKST0402-8.2uH/M	8.2±20%	188.0	216.0	2.2	1.8
CKST0402-10uH/M	10±20%	256.0	294.0	2.0	1.2

**CKST0502**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST0502-0.47uH/M	0.47±20%	7.2	10.0	12.0	7.5
CKST0502-0.68uH/M	0.68±20%	10.0	18.0	10.0	6.5
CKST0502-1uH/M	1±20%	14.0	20.0	9.0	6.0
CKST0502-1.5uH/M	1.5±20%	26.0	35.0	6.5	5.5
CKST0502-2.2uH/M	2.2±20%	32.0	45.0	6.0	4.0
CKST0502-3.3uH/M	3.3±20%	68.0	80.0	5.0	3.5
CKST0502-4.7uH/M	4.7±20%	82.0	95.0	4.0	3.0
CKST0502-5.6uH/M	5.6±20%	90.0	108.0	3.8	2.9
CKST0502-6.8uH/M	6.8±20%	108.0	130.0	3.5	2.8
CKST0502-10uH/M	10±20%	152.0	180.0	2.8	2.3

**Remark:** 1. All test data is reference to 25°C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate ΔT of 40°C

5. Operat between temperature range -40°C to +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



CKST0503

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST0503-0.22uH/M	0.22 $\pm$ 20%	3.6	4.5	28.0	16.0
CKST0503-0.33uH/M	0.33 $\pm$ 20%	5.0	7.0	18.0	14.0
CKST0503-0.47uH/M	0.47 $\pm$ 20%	6.5	7.5	12.0	10.0
CKST0503-0.68uH/M	0.68 $\pm$ 20%	11.0	12.0	12.0	8.0
CKST0503-1uH/M	1 $\pm$ 20%	13.0	15.0	9.0	7.0
CKST0503-1.2uH/M	1.2 $\pm$ 20%	14.0	15.0	8.8	6.5
CKST0503-1.5uH/M	1.5 $\pm$ 20%	17.0	25.0	8.5	6.0
CKST0503-2.2uH/M	2.2 $\pm$ 20%	27.0	35.0	8.0	5.5
CKST0503-3.3uH/M	3.3 $\pm$ 20%	35.0	46.0	6.0	4.5
CKST0503-4.7uH/M	4.7 $\pm$ 20%	50.0	60.0	5.0	4.0
CKST0503-6.8uH/M	6.8 $\pm$ 20%	69.0	86.0	4.5	3.5
CKST0503-8.2uH/M	8.2 $\pm$ 20%	80.0	105.0	4.0	3.3
CKST0503-10uH/M	10 $\pm$ 20%	115.0	126.0	3.5	2.5
CKST0503-15uH/M	15 $\pm$ 20%	174.0	190.0	2.2	1.8
CKST0503-22uH/M	22 $\pm$ 20%	230.0	260.0	1.9	1.3

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V





**CKSTT0610**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKSTT0610-4.7uH/M	4.7±20%	134.0	154.0	3.5	3.0	2.5	2.2
CKSTT0610-6.8uH/M	6.8±20%	164.0	197.0	3.2	2.7	2.0	1.8
CKSTT0610-10uH/M	10±20%	230.0	260.0	3.0	2.5	1.7	1.5

**CKSTT0610L**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKSTT0610L-4.7uH/M	4.7±20%	119.0	137.0	4.5	4.0	3.5	3.0
CKSTT0610L-6.8uH/M	6.8±20%	137.0	164.0	4.0	3.5	2.5	2.0
CKSTT0610L-10uH/M	10±20%	171.0	210.0	3.5	3.0	2.0	1.6

**CKSTF0615**

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKSTF0615-0.28uH/M	0.28±20%	3.5	4.5	26.0	23.0	20.0	18.0
CKSTF0615-1uH/M	1±20%	8.5	11.5	13.0	11.0	12.8	11.5

**Remark:** 1. All test data is reference to 25°C ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value, ΔT<40°C; for Typ. Value, ΔT is approximate 40°C.

5. Operat between temperature range -40°C to +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 30V



**CKST0603**

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST0603-0.1 $\mu$ H/N	0.1 $\pm$ 30%	1.5	1.7	60.0	32.5
CKST0603-0.15 $\mu$ H/M	0.15 $\pm$ 20%	1.9	2.5	50.0	30.0
CKST0603-0.22 $\mu$ H/M	0.22 $\pm$ 20%	2.5	3.0	34.0	23.0
CKST0603-0.33 $\mu$ H/M	0.33 $\pm$ 20%	3.0	3.5	25.0	21.0
CKST0603-0.47 $\mu$ H/M	0.47 $\pm$ 20%	3.5	4.1	20.0	18.0
CKST0603-0.68 $\mu$ H/M	0.68 $\pm$ 20%	5.3	5.9	17.0	16.0
CKST0603-0.82 $\mu$ H/M	0.82 $\pm$ 20%	6.0	7.0	16.0	14.0
CKST0603-1 $\mu$ H/M	1 $\pm$ 20%	7.0	7.5	15.0	12.0
CKST0603-1.5 $\mu$ H/M	1.5 $\pm$ 20%	10.6	12.1	12.5	11.0
CKST0603-2.2 $\mu$ H/M	2.2 $\pm$ 20%	15.5	17.5	10.0	8.0
CKST0603-3.3 $\mu$ H/M	3.3 $\pm$ 20%	23.0	26.0	9.5	6.0
CKST0603-4.7 $\mu$ H/M	4.7 $\pm$ 20%	34.5	38.0	6.5	5.0
CKST0603-6.8 $\mu$ H/M	6.8 $\pm$ 20%	47.0	50.0	6.0	4.5
CKST0603-8.2 $\mu$ H/M	8.2 $\pm$ 20%	58.5	65.0	6.0	4.0
CKST0603-10 $\mu$ H/M	10 $\pm$ 20%	64.0	68.0	5.0	4.0
CKST0603-15 $\mu$ H/M	15 $\pm$ 20%	106.0	115.0	3.8	2.6
CKST0603-22 $\mu$ H/M	22 $\pm$ 20%	165.0	189.0	3.1	2.3
CKST0603-33 $\mu$ H/M	33 $\pm$ 20%	250.0	270.0	2.5	2.0
CKST0603-47 $\mu$ H/M	47 $\pm$ 20%	300.0	350.0	2.0	1.7

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



CKST0605

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST0605-1uH/M	1 $\pm$ 20%	5.6	6.5	13.0	12.0
CKST0605-1.5uH/M	1.5 $\pm$ 20%	7.1	8.5	12.0	10.0
CKST0605-2.2uH/M	2.2 $\pm$ 20%	11.6	13.5	10.0	7.0
CKST0605-3.3uH/M	3.3 $\pm$ 20%	19.6	22.0	9.0	6.5
CKST0605-4.7uH/M	4.7 $\pm$ 20%	27.0	30.0	8.0	5.7
CKST0605-6.8uH/M	6.8 $\pm$ 20%	38.0	44.0	7.0	5.0
CKST0605-10uH/M	10 $\pm$ 20%	46.0	55.0	6.0	4.5
CKST0605-15uH/M	15 $\pm$ 20%	72.0	85.0	4.0	3.5
CKST0605-22uH/M	22 $\pm$ 20%	115.0	130.0	3.2	2.8
CKST0605-33uH/M	33 $\pm$ 20%	158.0	180.0	3.0	2.4
CKST0605-47uH/M	47 $\pm$ 20%	260.0	290.0	2.5	2.0
CKST0605-68uH/M	68 $\pm$ 20%	425.0	468.0	2.0	1.2

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



**CKSTF0817**

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)		Heat Rating Current DC Amps. Irms (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
CKSTF0817-0.68 $\mu$ H/M	0.68 $\pm$ 20%	5.7	6.8	23.0	20.0	20.0	18.1
CKSTF0817-0.9 $\mu$ H/M	0.9 $\pm$ 20%	7.5	9.0	17.0	15.0	16.0	13.8
CKSTF0817-1.4 $\mu$ H/M	1.4 $\pm$ 20%	7.8	10.8	14.0	12.0	13.0	11.7

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 1MHz, 1Vrms

3. 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.

4. Irms: For Max. Value,  $\Delta T < 40^{\circ}$ C; for Typ. Value,  $\Delta T$  is approximate 40 $^{\circ}$ C.

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 30V



CKST1003

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1003-0.22 $\mu$ H/M-B	0.22 $\pm$ 20%	1.07	1.2	50.0	30.0
CKST1003-0.33 $\mu$ H/M-B	0.33 $\pm$ 20%	1.3	1.6	32.0	23.0
CKST1003-0.47 $\mu$ H/M-B	0.47 $\pm$ 20%	2.1	2.5	26.0	23.0
CKST1003-0.56 $\mu$ H/M-B	0.56 $\pm$ 20%	2.4	3.0	24.0	22.0
CKST1003-0.68 $\mu$ H/M-B	0.68 $\pm$ 20%	2.9	3.4	23.0	21.0
CKST1003-1 $\mu$ H/M	1 $\pm$ 20%	5.5	6.0	21.0	15.0
CKST1003-1.5 $\mu$ H/M	1.5 $\pm$ 20%	6.5	7.5	18.0	12.0
CKST1003-2.2 $\mu$ H/M	2.2 $\pm$ 20%	8.0	9.0	12.0	11.0
CKST1003-3.3 $\mu$ H/M	3.3 $\pm$ 20%	14.5	16.0	12.0	9.0
CKST1003-4.7 $\mu$ H/M	4.7 $\pm$ 20%	20.5	25.0	10.0	7.0
CKST1003-5.6 $\mu$ H/M	5.6 $\pm$ 20%	27.0	30.0	10.0	6.0
CKST1003-6.8 $\mu$ H/M	6.8 $\pm$ 20%	30.0	35.0	7.5	5.5
CKST1003-8.2 $\mu$ H/M	8.2 $\pm$ 20%	35.0	45.0	7.0	5.0
CKST1003-10 $\mu$ H/M	10 $\pm$ 20%	50.0	55.0	6.5	4.5
CKST1003-15 $\mu$ H/M	15 $\pm$ 20%	59.0	65.0	5.0	4.0
CKST1003-22 $\mu$ H/M	22 $\pm$ 20%	90.0	99.0	4.0	3.0

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



CKST1004

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1004-0.15uH/N-B	0.15 $\pm$ 30%	0.53	0.65	45.0	75.0
CKST1004-0.22uH/M-B	0.22 $\pm$ 20%	0.9	1.1	55.0	35.0
CKST1004-0.36uH/M-B	0.36 $\pm$ 20%	1.05	1.2	42.0	34.0
CKST1004-0.47uH/M-B	0.47 $\pm$ 20%	1.53	1.68	38.0	28.0
CKST1004-0.56uH/M-B	0.56 $\pm$ 20%	1.6	1.8	32.0	27.0
CKST1004-0.68uH/M-B	0.68 $\pm$ 20%	2.1	2.4	30.0	23.0
CKST1004-0.82uH/M-B	0.82 $\pm$ 20%	2.7	3.9	26.0	20.0
CKST1004-1uH/M-B	1 $\pm$ 20%	3.0	3.3	26.0	20.0
CKST1004-1.5uH/M-B	1.5 $\pm$ 20%	3.8	4.2	22.0	16.0
CKST1004-2.2uH/M	2.2 $\pm$ 20%	6.0	7.0	16.0	14.0
CKST1004-3.3uH/M	3.3 $\pm$ 20%	10.8	11.8	13.0	11.0
CKST1004-4.7uH/M	4.7 $\pm$ 20%	14.0	16.5	12.0	8.5
CKST1004-5.6uH/M	5.6 $\pm$ 20%	15.5	18.0	11.0	8.2
CKST1004-6.8uH/M	6.8 $\pm$ 20%	22.5	25.0	10.0	8.0
CKST1004-8.2uH/M	8.2 $\pm$ 20%	25.0	27.0	9.0	7.5
CKST1004-10uH/M	10 $\pm$ 20%	27.0	30.0	7.0	6.5
CKST1004-15uH/M	15 $\pm$ 20%	40.0	45.0	6.0	6.3
CKST1004-22uH/M	22 $\pm$ 20%	60.0	66.0	5.5	5.0
CKST1004-33uH/M	33 $\pm$ 20%	85.0	92.0	4.5	4.0
CKST10045-47uH/M	47 $\pm$ 20%	130.0	150.0	4.0	3.0
CKST10045-68uH/M	68 $\pm$ 20%	192.0	205.0	3.0	2.3

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C (Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



CKST1005

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1005-0.22 $\mu$ H/M-B	0.22 $\pm$ 20%	0.6	0.8	65.0	37.0
CKST1005-1 $\mu$ H/M-B	1 $\pm$ 20%	2.3	3.0	28.0	19.0
CKST1005-1.5 $\mu$ H/M-B	1.5 $\pm$ 20%	3.2	4.0	21.0	16.0
CKST1005-1.8 $\mu$ H/M-B	1.8 $\pm$ 20%	3.5	5.0	20.0	15.0
CKST1005-2.2 $\mu$ H/M	2.2 $\pm$ 20%	5.5	6.6	19.0	13.0
CKST1005-3.3 $\mu$ H/M	3.3 $\pm$ 20%	9.2	11.0	18.0	11.0
CKST1005-4.7 $\mu$ H/M	4.7 $\pm$ 20%	12.0	15.0	15.0	10.0
CKST1005-5.6 $\mu$ H/M	5.6 $\pm$ 20%	14.0	18.0	14.0	8.5
CKST1005-6.8 $\mu$ H/M	6.8 $\pm$ 20%	16.0	19.2	13.0	8.0
CKST1005-10 $\mu$ H/M	10 $\pm$ 20%	23.0	28.0	10.0	7.0
CKST1005-15 $\mu$ H/M	15 $\pm$ 20%	35.0	42.0	7.0	6.5
CKST1005-22 $\mu$ H/M	22 $\pm$ 20%	58.0	70.0	6.0	5.5
CKST1005-33 $\mu$ H/M	33 $\pm$ 20%	70.0	84.0	5.0	4.5
CKST1005-47 $\mu$ H/M	47 $\pm$ 20%	130.0	150.0	4.5	3.0
CKST1005-68 $\mu$ H/M	68 $\pm$ 20%	185.0	205.0	3.5	2.5

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



CKST1205

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1205-0.33uH/M-B	0.33 $\pm$ 20%	0.75	0.9	62.0	46.0
CKST1205-0.36uH/M-B	0.36 $\pm$ 20%	0.77	1.1	60.0	41.0
CKST1205-0.47uH/M-B	0.47 $\pm$ 20%	1.0	1.3	46.0	37.0
CKST1205-1uH/M-B	1 $\pm$ 20%	1.9	2.5	37.0	29.0
CKST1205-1.5uH/M-B	1.5 $\pm$ 20%	3.4	4.1	30.0	23.0
CKST1205-1.8uH/M-B	1.8 $\pm$ 20%	3.5	4.5	26.0	18.0
CKST1205-2.2uH/M-B	2.2 $\pm$ 20%	4.0	5.0	25.0	15.0
CKST1205-3.3uH/M	3.3 $\pm$ 20%	7.5	9.0	20.0	12.0
CKST1205-4.7uH/M	4.7 $\pm$ 20%	9.0	11.5	16.0	11.0
CKST1205-5.6uH/M	5.6 $\pm$ 20%	13.0	15.0	15.0	10.5
CKST1205-6.8uH/M	6.8 $\pm$ 20%	18.0	22.0	14.0	9.0
CKST1205-8.2uH/M	8.2 $\pm$ 20%	19.0	24.0	13.0	8.5
CKST1205-10uH/M	10 $\pm$ 20%	24.0	29.0	11.0	7.5
CKST1205-15uH/M	15 $\pm$ 20%	27.0	32.0	9.0	6.0
CKST1205-22uH/M	22 $\pm$ 20%	42.0	50.0	7.0	5.0
CKST1205-33uH/M	33 $\pm$ 20%	60.0	84.0	6.0	3.5
CKST1205-47uH/M	47 $\pm$ 20%	100.0	130.0	5.0	3.0

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C (Including self - temperature rise)

6. Absolute maximum voltage: DC 75V

7. CKST1205-1uH,2.2uH Dimensions E=3.0 $\pm$ 0.5mm , Other P/N E=3.5 $\pm$ 0.5mm



### CKST1206

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1206-0.33uH/M-B	0.33 $\pm$ 20%	0.58	0.8	65.0	43.0
CKST1206-1uH/M-B	1 $\pm$ 20%	1.4	1.7	35.0	24.0
CKST1206-1.5uH/M-B	1.5 $\pm$ 20%	2.5	4.0	31.0	22.0
CKST1206-2.2uH/M-B	2.2 $\pm$ 20%	4.2	6.0	26.0	18.0
CKST1206-3.3uH/M-B	3.3 $\pm$ 20%	5.6	9.0	23.0	12.0
CKST1206-4.7uH/M-B	4.7 $\pm$ 20%	7.2	10.5	18.0	11.8
CKST1206-6.8uH/M	6.8 $\pm$ 20%	10.0	13.8	15.0	11.5
CKST1206-8.2uH/M	8.2 $\pm$ 20%	13.6	16.0	13.5	11.0
CKST1206-10uH/M	10 $\pm$ 20%	18.0	20.7	12.5	10.0
CKST1206-15uH/M	15 $\pm$ 20%	25.0	29.0	9.0	6.0
CKST1206-18uH/M	18 $\pm$ 20%	30.0	35.0	8.0	5.0
CKST1206-22uH/M	22 $\pm$ 20%	34.0	39.5	7.5	5.0
CKST1206-27uH/M	27 $\pm$ 20%	54.0	60.0	6.5	4.0
CKST1206-33uH/M	33 $\pm$ 20%	65.0	75.0	6.0	4.0
CKST1206-47uH/M	47 $\pm$ 20%	80.0	90.0	5.5	3.5
CKST1206-68uH/M	68 $\pm$ 20%	115.0	130.0	4.5	3.3
CKST1206-82uH/M	82 $\pm$ 20%	120.0	140.0	4.0	3.0
CKST1206-100uH/M	100 $\pm$ 20%	180.0	200.0	3.5	2.5
CKST1206-120uH/M	120 $\pm$ 20%	210.0	235.0	3.2	2.3
CKST1206-150uH/M	150 $\pm$ 20%	300.0	350.0	2.7	2.0

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V

7. CKST1206-2.2uH,3.3uH,4.7uH Dimensions E=3.0 $\pm$ 0.5mm , Other P/N E=3.5 $\pm$ 0.5mm



CKST1707

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum	Typical	Typical
CKST1707-1uH/M	1 $\pm$ 20%	1.5	1.9	55.5	32.0
CKST1707-1.5uH/M	1.5 $\pm$ 20%	2.1	2.8	40.0	23.0
CKST1707-2.2uH/M	2.2 $\pm$ 20%	2.3	3.0	40.0	18.0
CKST1707-3.3uH/M	3.3 $\pm$ 20%	2.9	3.2	35.0	15.0
CKST1707-4.7uH/M	4.7 $\pm$ 20%	4.4	5.8	30.0	13.0
CKST1707-6.8uH/M	6.8 $\pm$ 20%	6.2	8.0	22.5	10.5
CKST1707-8.2uH/M	8.2 $\pm$ 20%	10.0	13.0	20.0	9.5
CKST1707-10uH/M	10 $\pm$ 20%	10.0	13.0	19.0	9.5
CKST1707-15uH/M	15 $\pm$ 20%	16.5	22.0	14.0	9.0
CKST1707-22uH/M	22 $\pm$ 20%	20.0	26.0	12.0	8.5
CKST1707-33uH/M	33 $\pm$ 20%	30.0	38.5	10.7	8.0
CKST1707-47uH/M	47 $\pm$ 20%	43.0	53.0	8.7	6.0
CKST1707-56uH/M	56 $\pm$ 20%	55.0	60.5	7.2	5.2
CKST1707-68uH/M	68 $\pm$ 20%	58.0	79.0	6.1	4.5
CKST1707-100uH/M	100 $\pm$ 20%	103.0	123.0	5.0	4.0

**Remark:** 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Test Condition: 100kHz, 1Vrms

3. Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

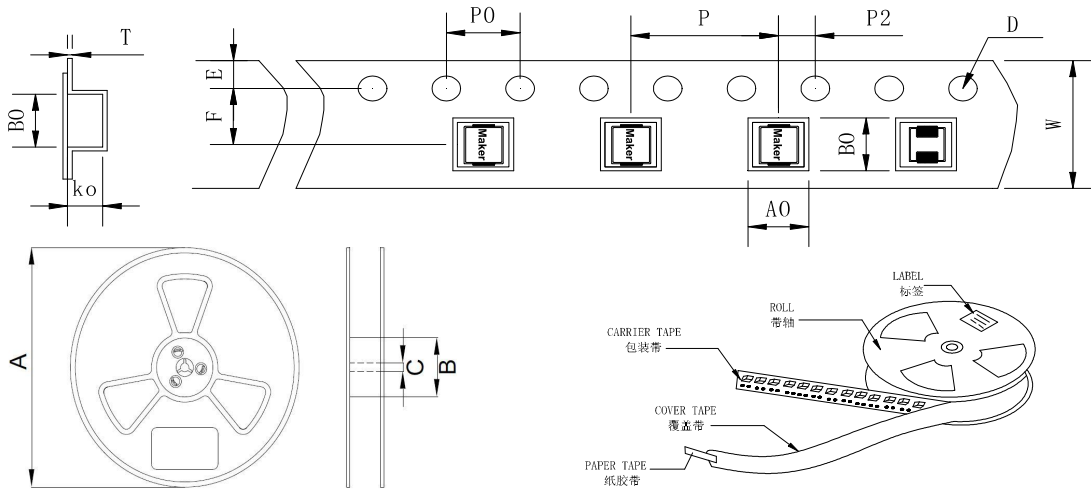
4. Irms: DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

5. Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)

6. Absolute maximum voltage: DC 75V



● PACKAGING SPECIFICATION :



Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)	Quantity (Pcs/ Carton)
	W	A0	B0	K0	DO	P	A	B	C		
CKST201210	8.0	1.5	2.35	1.2	1.5	4.0	178	58	13	3000	75K
CKST201610	8.0	1.95	2.35	1.2	1.5	4.0	178	58	13	3000	75K
CKST252010	8.0	2.3	2.8	1.2	1.5	4.0	178	58	13	3000	75K
CKST252012	8.0	2.3	2.8	1.5	1.5	4.0	178	58	13	3000	75K
CKST322512	8.0	2.8	3.5	1.5	1.5	4.0	178	58	13	2000	50K
CKST353220	12.0	3.7	3.9	2.2	1.5	8.0	330	100	13	3000	18K
CKSTT0410	12.0	4.5	4.5	1.3	1.5	8.0	330	100	13	3000	18K
CKST04012P	12.0	4.4	4.9	1.5	1.5	8.0	330	100	13	3000	18K
CKST0402	12.0	4.4	5.2	2.2	1.5	8.0	330	100	13	3000	18K
CKST0502	16.0	5.6	6.0	2.2	1.5	12.0	330	100	13	2000	12K
CKST0503	16.0	5.6	6.0	3.3	1.5	12.0	330	100	13	1500	9K
CKSTT0610	16.0	7.1	8.1	1.3	1.5	12.0	330	100	13	2000	12K
CKSTF0615	16.0	7.1	8.1	1.8	1.5	12.0	330	100	13	2000	12K
CKST0603	16.0	7.2	8.0	3.3	1.5	12.0	330	100	13	1500	9K
CKST0605	16.0	7.2	8.0	5.5	1.5	12.0	330	100	13	1000	6K
CKSTF0817	16.0	8.4	8.4	2.0	1.5	12.0	330	100	13	2000	12K
CKST1003	24.0	10.7	11.4	3.3	1.5	16.0	330	100	13	1000	4K
CKST1004	24.0	10.7	11.4	4.3	1.5	16.0	330	100	13	1000	4K
CKST1005	24.0	10.7	11.4	5.5	1.5	16.0	330	100	13	800	3.2K
CKST1205	24.0	13.2	13.4	5.5	1.5	20.0	330	100	13	400	1.6K
CKST1206	24.0	13.2	13.4	6.8	1.5	20.0	330	100	13	400	1.6K
CKST1707	32.0	18.0	18.8	7.5	1.5	24.0	330	100	13	300	1.2K