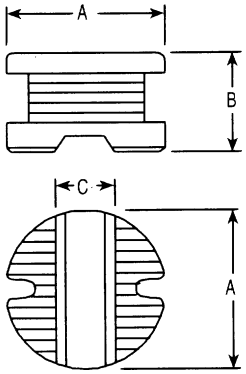
FIXED HIGH-FREQUENCY INDUCTORS

- Suitable for reflow sold
- Available in 0805 & 1006 sizes
- High current capability
  up to 2 Amps
- Low DCR

DIMENSIONS



TYPE	A	B	C
0805	.307 (7.8 MAX)	.208 (5.3 MAX)	.102 (2.6 TYP)
1006	.385 (9.8 MAX)	.228 (5.8) MAX	.114 (2.9 TYP)

ORDERING & SPECIFYING INFORMATION*

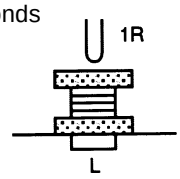
SDR	1006	TE	IRO	K
Type	Size Code	Packaging	Nominal Inductance	Tolerance
Choke Coil	0805 1006	TE: Embossed Plastic No Designation: Bulk	1R0 = 1µH 101 = 100µH Decimal point shall be indicated by R, which are all significant figures.	M: ±20% K: ±10%

*Please Note: KSE's Part Numbers Do Not Contain any Spaces or Hyphens.

STANDARD APPLICATIONS

Ordering Code	Item of Nominal Inductance	Nominal Inductance L (uH)	Tolerance	DC Resistance RDC (Q) MAX	Rates Current IDC (A) MAX	Operation Temp. Range	Storage Temp. Range
SDR0805TE	100	10.0	M: ± 20%	0.07	2.3	-25°C ~ 85°C	-40°C ~ 100°C
SDR0805TE	120	12.0		0.08	2.0		
SDR0805TE	150	15.0		0.09	1.8		
SDR0805TE	180	18.0		0.10	1.6		
SDR0805TE	220	22.0		0.11	1.5		
SDR0805TE	270	27.0		0.12	1.3		
SDR0805TE	330	33.0	K: ±10%	0.14	1.2		
SDR0805TE	390	39.0		0.16	1.1		
SDR0805TE	470	47.0		0.20	1.0		
SDR0805TE	560	56.0		0.24	0.94		
SDR0805TE	680	68.0		0.30	0.85		
SDR0805TE	820	82.0		0.37	0.78		
SDR0805TE	101	100.0		0.45	0.72		
SDR0805TE	121	120.0		0.48	0.66		
SDR0805TE	151	150.0		0.68	0.58		
SDR0805TE	181	180.0		0.77	0.51		
SDR0805TE	221	220.0		0.96	0.49		
SDR0805TE	271	270.0		1.11	0.42		
SDR0805TE	331	330.0		1.26	0.40		
SDR0805TE	391	390.0		1.77	0.36		
SDR0805TE	471	470.0		1.96	0.34		
SDR1006TE	100	10.0	M: ± 20%	0.06	2.60		
SDR1006TE	120	12.0		0.07	2.45		
SDR1006TE	150	15.0		0.08	2.25		
SDR1006TE	180	18.0		0.09	2.15		
SDR1006TE	220	22.0		0.10	1.95		
SDR1006TE	270	27.0		0.11	1.75		
SDR1006TE	330	33.0	K: ±10%	0.12	1.50		
SDR1006TE	390	39.0		0.14	1.35		
SDR1006TE	470	47.0		0.17	1.25		
SDR1006TE	560	56.0		0.19	1.15		
SDR1006TE	680	68.0		0.22	1.10		
SDR1006TE	820	82.0		0.25	1.00		
SDR1006TE	101	100.0		0.35	0.97		
SDR1006TE	121	120.0		0.40	0.89		
SDR1006TE	151	150.0		0.47	0.78		
SDR1006TE	181	180.0		0.63	0.72		
SDR1006TE	221	220.0		0.73	0.66		
SDR1006TE	271	270.0		0.97	0.57		
SDR1006TE	331	330.0		1.15	0.52		
SDR1006TE	391	390.0		1.30	0.48		
SDR1006TE	471	470.0		1.48	0.42		
SDR1006TE	561	560.0		1.90	0.33		
SDR1006TE	681	680.0		2.25	0.28		
SDR1006TE	821	820.0		2.55	0.24		

ENVIRONMENTAL & MECANICAL PERFORMANCE

PARAMETER	MAXIMUM ΔL	TEST METHODS
Body Strength	No Damage	Load 1 kg. for 10 seconds  R. The top of load stock L: Slot-width SDR 1006: .236"(6.0mm) SDR0805: .157" (4.0 mm)
Resistance to Vibration	Change of Induction: ±5%	To put the sample on paper phenotic resin laminatebase and to vibrate at the frequency of 10-55-10 Hz for each X,Y,Z direction for 2 hours and to sweep it at a full vibration width .059" (1.5mm) for 1 minute.
Resistance to Soldering	No remarkable visual damage	To immerse into Solder bath of 260 ± 5°C for 10 ± 1 seconds.
Solderability	The electrode shall be covered with new sold	To immerse for 3 + 0.5 seconds at 235 ±+5°C
Resistance to Cold	Change of Inductance: ±10%	To leave in a bath at -40 ± 2°C for 1,000 hours.
Temperature Cycling	Change of Inductance: ±10%	To keep at -25°C~85°C for 30 minutes in 5 cycles and leave for 1~15 minutes in normal temperature at the time of transition between low temperatures and high temperatures.
Resistance Heat	Change of Inductance: ±10%	To leave in a bath at 85± 2°C for 2 hours. (Resistance to heat of Ferrite Core: 120°C)
T.C.R. Inductance: ±5%	Change of	20°C shall be standard and change of inductance shall be measured at -25°C~85°C
Resistance to Damp (Steady State)	Change of Inductance: ±10%	Temperature: 60±2°C Humidity: 90~95% Test hours: 1,000 hours
Endurance (Under Damp and Load)	Change of Inductance: ±10%	Temperature: 40±2°C Humidity: 90~95%
Endurance (Under High	Change of Inductance:±10%	Temperature: 85±2°C To supply allpwable current for 1,000 hours