

# Type:SDT1608C

- Product Description
- 6.60×4.45mm Max.(L×W),2.92mm Max. Height.
- Inductance Range: 1.0~1000.0 µH
- DCR range: 0.65~8.1Ω
- · In addition to the standards versions shown here,
- custom inductors are also available to meet your exact requirements.

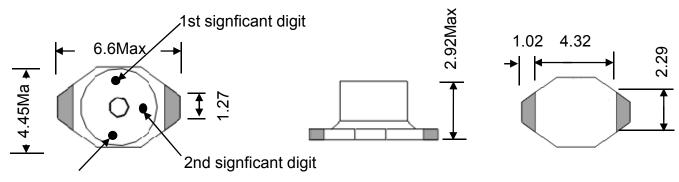
#### ♦ Feature

- SMD (shielded)power inductor
- High currents
- RoHS-compliant.

#### Application

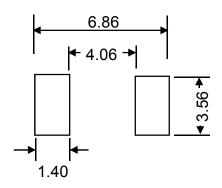
- Power supplies for VTR
- OA equipment
- LCD televisions
- PC notebooks
- Portable communication equipment
- DC/DC converters ,etc

### Dimensions (mm)



3rd signficant digit

## Land Pattern (mm)





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# Specification

		DCD	SDE		Curront	Enormy	Switching
							Switching
				•	•	•	
code	(µH ±20%)	(Ω)	(MHz)	(µH)	(A)	(µJoules)	(Max)
	1.0	0.065	180	0.60	2.00	1.8	1 MHz
	1.5	0.070	120	0.80	1.90	1.8	1 MHz
	2.2	0.075	100	0.90	1.50	1.8	1 MHz
	3.3	0.080	70	1.50	1.20	1.4	1 MHz
	4.7	0.085	60	2.00	1.20	1.6	1 MHz
	6.8	0.090	50	3.00	1.00	1.9	1 MHz
	10.0	0.125	45	5.00	0.70	1.2	1 MHz
	15.0	0.135	35	6.00	0.60	1.1	1 MHz
	22.0	0.160	25	10.00	0.50	1.2	1 MHz
	33.0	0.275	20	12.00	0.45	1.5	1 MHz
	47.0	0.300	17	20.00	0.34	1.3	1 MHz
	68.0	0.575	14	30.00	0.29	1.4	1 MHz
	100.0	1.100	12	40.00	0.24	1.5	1 MHz
	150.0	1.400	7.0	60.00	0.20	1.4	500 KHz
	220.0	2.250	7.0	90.00	0.17	1.6	500 KHz
	330.0	2.900	6.0	100.00	0.16	1.4	500 KHz
	470.0	3.600	4.0	150.00	0.14	1.5	500 KHz
	680.0	4.550	3.5	200.00	0.12	1.4	500 KHz
	1000.0	8.100	2.5	400.00	0.08	1.4	500 KHz
		1.0   1.5   2.2   3.3   4.7   6.8   10.0   15.0   22.0   33.0   47.0   68.0   100.0   150.0   22.0   33.0   47.0   68.0   100.0   150.0   220.0   330.0   470.0   680.0	code( $\mu$ H ±20%)( $\Omega$ )1.00.0651.50.0702.20.0753.30.0804.70.0856.80.09010.00.12515.00.13522.00.16033.00.27547.00.30068.00.575100.01.100150.01.400220.02.250330.02.900470.03.600680.04.550	System codeInductance (μH ±20%)Max. (Ω)typ (MHz)1.00.0651801.00.0651801.50.0701202.20.0751002.20.0751003.30.080704.70.085606.80.0905010.00.1254515.00.1353522.00.1602533.00.2752047.00.3001768.00.57514100.01.10012150.01.4007.0220.02.2507.0330.02.9006.0470.03.6004.0680.04.5503.5	System codeInductance (μH ±20%)Max. (Ω)typ (MHz)rating (μH)1.00.0651800.601.50.0701200.802.20.0751000.903.30.080701.504.70.085602.006.80.090503.0010.00.125455.0015.00.135356.0022.00.1602510.0033.00.2752012.0047.00.3001720.00150.01.4007.060.00150.01.4007.060.00220.02.2507.090.00330.02.9006.0100.00470.03.6004.0150.00470.03.6004.0150.00	System codeInductance (μH ±20%)Max. (Ω)typ (MHz)rating (μH)rating (A)1.00.0651800.602.001.50.0701200.801.902.20.0751000.901.503.30.080701.501.204.70.085602.001.206.80.090503.001.0010.00.125455.000.7015.00.135356.000.6022.00.1602510.000.5033.00.2752012.000.4547.00.3001720.000.3468.00.5751430.000.29100.01.4007.060.000.20220.02.2507.090.000.17330.02.9006.0100.000.16470.03.6004.0150.000.14688.04.5503.5200.000.12	System codeInductance ( $\mu$ H ±20%)Max. ( $\Omega$ )typ (MHz)rating ( $\mu$ H)storage max ( $\mu$ Joules)1.00.0651800.602.001.81.50.0701200.801.901.82.20.0751000.901.501.83.30.080701.501.201.44.70.085602.001.201.46.80.090503.001.001.910.00.125455.000.701.215.00.135356.000.601.122.00.1602510.000.501.233.00.2752012.000.451.547.00.3001720.000.341.368.00.5751430.000.291.4100.01.4007.060.000.201.4220.02.2507.090.000.171.6330.02.9006.0100.000.161.4470.03.6004.0150.000.141.5680.04.5503.5200.000.121.4

#### **\*\*Description of Part Name**

SDT1608C-103\_

\_\_\_ Inductance(L)

— Inductor size(Length x Height)

- 1. Inductance tested at 0.1 Vrms, 100 kHz, 0 Adc.
- 2. Measured at the rated current. Refer to L vs Current curves for details.
- 3. Average maximum allowable current. DT Series inductors are designed
- for current spikes as high as twice the current rating.
- 4. Ambient temperature range: –40°C to +85°C
- 5. Storage temperature range: Component: -40°C to +85°C ; Packaging: 55° C to +80° C
- 6. Resistance to soldering heat: Three reflows at >217°C for 90 seconds
- $(+260^{\circ}C \pm 5^{\circ}C \text{ for } 20 40 \text{ seconds})$ , allowing parts to cool to room temperature between.
- 7. Electrical specifications at 25°C.