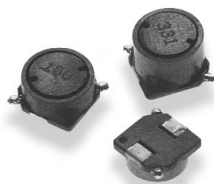


Type 3638 Series



The 3638 series of shielded inductors are available in three different packages. Excellent solderability and high heat resistance, together with Tyco Sigma, quality and reliability make these products suitable for a wide range of electronic equipment applications.

Key Features

- Available in 3 different packages
- Up to 3A
- Low RDC
- Tape and Reeled
- High heat resistance
- Excellent reliability
- Ferrite Core

Type 3638 Series

Electrical Characteristics - 3638A Series

Inductance Code	Inductance (µH)	Test Freq. (Hz)	R.D.C. (Ω) Max.	I _{rms} (A)	I _{sat} (A)
1R0	1.0±20%	1K	0.016	3.80	3.00
1R5	1.5±20%	1K	0.020	3.20	250
2R2	2.2±20%	1K	0.032	3.00	220
3R3	3.3±20%	1K	0.044	1.92	1.55
4R7	4.7±20%	1K	0.050	1.80	1.35
6R8	6.8±20%	1K	0.070	1.45	1.20
100	10.0±20%	1K	0.105	1.20	1.00
150	15.0±20%	1K	0.140	1.00	0.80
220	22.0±20%	1K	0.220	0.80	0.65
330	33.0±20%	1K	0.280	0.65	0.55
470	47.0±20%	1K	0.380	0.55	0.48
680	68.0±20%	1K	0.600	0.45	0.38
101	100.0±20%	1K	0.840	0.38	0.31
151	150.0±20%	1K	1.200	0.30	0.26
221	220.0±20%	1K	1.700	0.25	0.22
331	330.0±20%	1K	2.450	0.20	0.17
471	470.0±20%	1K	3.600	0.17	0.14
681	680.0±20%	1K	5.400	0.13	0.11
102	1000.0±20%	1K	8.200	0.11	0.09

Environmental Characteristics - 3638A Series

Storage Temp:	-40°C to +125°C
Operating Temp:	-40°C to +105°C (Temp. rise included)

Electrical Characteristics - 3638B Series

Inductance Code	Inductance (µH)	Q Ref.	Test Freq. (MHz)	S.R.F. (MHz) Typ.	R.D.C. (Ω) Max.	I _{rms} (A)	I _{sat} (A)
3R3	3.3±20%	16	7.96	55.0	0.027	2.40	2.20
4R7	4.7±20%	16	7.96	43.0	0.042	2.00	2.00
6R8	6.8±20%	17	7.96	37.0	0.054	1.60	1.80
100	10.0±20%	25	2.52	35.0	0.068	1.40	1.60
150	15.0±20%	22	2.52	32.0	0.095	1.10	1.20
220	22.0±20%	20	2.52	29.0	0.135	0.96	1.05
330	33.0±20%	23	2.52	20.0	0.200	0.76	0.86
470	47.0±20%	26	2.52	18.0	0.270	0.67	0.70
680	68.0±20%	22	2.52	16.0	0.380	0.60	0.67
101	100.0±20%	28	0.796	12.0	0.540	0.45	0.50
151	150.0±20%	35	0.796	10.0	0.800	0.37	0.38
221	220.0±20%	47	0.796	7.5	1.300	0.30	0.32
331	330.0±20%	46	0.796	6.1	1.900	0.22	0.24
471	470.0±20%	34	0.796	5.1	2.400	0.20	0.20
681	680.0±20%	58	0.796	3.8	3.750	0.16	0.15
102	1000.0±20%	120	0.252	3.1	5.400	0.15	0.14

Type 3638 Series

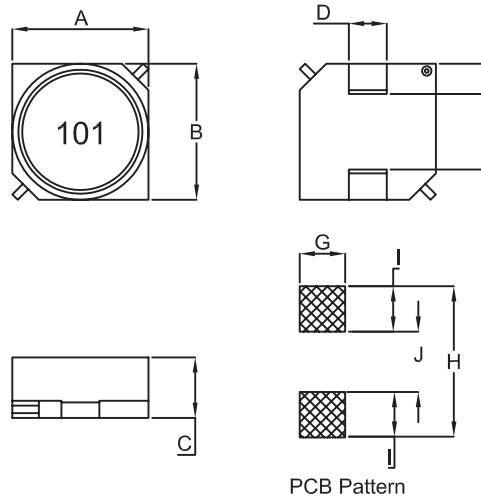
**Electrical Characteristics -
3638C Series**

Inductance Code	Inductance (µH)	Q Ref.	Test Freq. (MHz)	S.R.F. (MHz) Typ.	R.D.C. (Ω) Max.	I _{rms} (A)	I _{sat} (A)
100	10±20%	30	2.52	25	0.042	2.00	1.70
150	15±20%	31	2.52	24	0.062	1.60	1.35
220	22±20%	26	2.52	18	0.082	1.35	1.10
330	33±20%	25	2.52	12	0.115	1.15	0.90
470	47±20%	29	2.52	11	0.150	0.95	0.78
680	68±20%	22	2.52	10	0.210	0.77	0.60
101	100±20%	40	0.796	8	0.300	0.65	0.50
151	150±20%	51	0.796	7	0.480	0.53	0.41
221	220±20%	44	0.796	5	0.700	0.45	0.36
331	330±20%	65	0.796	4	0.730	0.40	0.25
471	470±20%	80	0.796	3	1.100	0.32	0.22
681	680±20%	65	0.796	3	1.600	0.27	0.20
102	1000±20%	90	0.252	3	2.400	0.25	0.15

**Environmental Characteristics -
B, C Series**

Storage Temp:	-40°C to +125°C
Operating Temp:	-25°C to +105°C
Temp Rise:	30°C Max.

**Dimensions
A, B, C Series**



Series	A	B	C	D	E	F	G	H	I	J
3638A	6.0 ^{+0.3}	6.0 ^{+0.3}	2.8 ^{+0.3}	2.0 ^{+0.3}	1.9 typ.	2.2 ref.	2.4 ref.	6.7 ref.	2.3 ref.	2.1 ref.
3638B	7.0 ^{+0.3}	7.0 ^{+0.3}	3.2 ^{+0.3}	2.0 typ.	1.5 typ.	4.0 typ.	2.4 ref.	7.8 ref.	1.8 ref.	4.2 ref.
3638C	7.0 ^{+0.3}	7.0 ^{+0.3}	4.5 ^{+0.3}	2.0 typ.	1.5 typ.	4.0 typ.	2.4 ref.	7.8 ref.	1.8 ref.	4.2 ref.

Type 3638 Series

**Reliability Test -
A, B, C Series**

Test Item	Specification	Test Condition
Thermal Shock Test: (Temp Cycle)	$\Delta L \leq 20\%$	Room Temp. \rightarrow $-25 \pm 2^\circ\text{C}$ 15 minutes \rightarrow 30 minutes Room Temp. \rightarrow $85 \pm 2^\circ\text{C}$ 15 minutes \rightarrow 30 minutes Total: 50 cycles
Humidity Resistance Test:	$\Delta L \leq 20\%$	Temperature: $40 \pm 2^\circ\text{C}$ Humidity: 90 ~ 95% Applied Current: Per spec. Time: 500 hours
High Temp. Resistance Test:	$\Delta L \leq 20\%$	Temperature: $105 \pm 2^\circ\text{C}$ ($125 \pm 2^\circ\text{C}$ - A Series) Applied Current: Per spec. Time: 500 hours

How to Order

3638	A	220	M
Common Part	Style	Inductance	Tolerance
3638	A, B or C	See Relevant Table for Inductance Code	M - 20%

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)