

Type 3633 Series

Key Features

- Available in 6 different packages
- Up to 3.5A
- Down to less than 1mm height profile
- Tape and Reeled
- High heat resistance
- Excellent reliability
- Ferrite Core



The 3633 series of shielded inductors are available in six 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.

Electrical Characteristics - 3633A Series

Inductance Code	Inductance (μ H)	Q Ref.	Test Freq. (Hz)		R.D.C. (m Ω)		S.R.F. (MHz) Typ.	I _{rms} (mA) Typ.	I _{sat} (mA) Typ.	Marking
			L	Q	Typ.	Max.				
1R2	1.2	10.0	100K	7.96M	88	115	210	1000	1100	A
2R2	2.2	8.5	100K	7.96M	115	145	150	800	850	B
3R3	3.3	8.0	100K	7.96M	180	225	130	650	720	C
4R7	4.7	9.0	100K	7.96M	230	290	100	480	500	D
6R8	6.8	8.0	100K	7.96M	400	500	85	400	430	E
100	10.0	8.5	100K	2.52M	610	760	60	280	350	F
220	22.0	20.0	100K	2.52M	1150	1450	40	220	250	G

Electrical Characteristics - 3633C Series

Inductance Code	Inductance (μ H)	Q Ref.	Test Freq.(Hz)		R.D.C. (m Ω)		S.R.F. (MHz) Typ.	I _{rms} (mA) Typ.	I _{sat} (mA) Typ.
			L	Q	Typ.	Max.			
1R0	1.0	12.0	100K	7.96M	38	55	150	1850	1900
1R5	1.5	12.0	100K	7.96M	51	63	120	1550	1600
2R2	2.2	10.0	100K	7.96M	75	95	110	1100	1300
3R3	3.3	12.0	100K	7.96M	95	135	80	1000	1100
4R7	4.7	15.0	100K	7.96M	130	165	70	820	920
6R8	6.8	10.0	100K	7.96M	180	230	50	700	780
100	10.0	30.0	100K	2.52M	235	290	40	640	660
150	15.0	35.0	100K	2.52M	440	550	30	400	460
220	22.0	35.0	100K	2.52M	700	875	25	320	360

Electrical Characteristics - 3633D Series

Inductance Code	Inductance (μ H)	Q Ref.	R.D.C. (m Ω)		S.R.F. (MHz) Typ.	I _{rms} (mA) Typ.	I _{sat} (mA) Typ.
			Typ.	Max.			
2R2	2.2	8.0	35	45	100	1700	980
3R3	3.3	8.0	55	70	80	1450	800
4R7	4.7	10.0	68	87	60	1100	630
6R8	6.8	10.0	85	105	50	1000	530
100	10.0	15.0	120	150	40	850	470
150	15.0	20.0	175	220	35	680	350
220	22.0	20.0	250	320	30	600	300
330	33.0	20.0	430	550	20	470	250
470	47.0	18.0	540	670	18	360	210

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Electrical Characteristics - 3633E Series

Inductance Code	Inductance (μH)	Q Ref.	Test Freq.(Hz)		R.D.C. (mΩ)		S.R.F. (MHz) Typ.	I _{rms} (mA) Typ.	I _{sat} (mA) Typ.
			L	Q	Typ.	Max.			
100	10.0	20.0	100K	2.52M	160	200	35	720	860
150	15.0	18.0	100K	2.52M	230	290	25	660	720
220	22.0	18.0	100K	2.52M	270	335	15	600	620
330	33.0	20.0	100K	2.52M	450	560	10	470	480
470	47.0	20.0	100K	2.52M	815	1000	8	320	380
680	68.0	20.0	100K	2.52M	1400	1750	7	240	280
101	100.0	20.0	100K	0.796M	2200	2750	5	190	210

Electrical Characteristics - 3633F Series

Inductance Code	Inductance (μH)	Q Ref.	Test Freq. (Hz)		R.D.C. (mΩ)		S.R.F. (MHz) Typ.	I _{rms} (mA) Max.	I _{sat} (mA) Typ.
			L	Q	Typ.	Max.			
1R0	1.0	9.0	100K	7.96M	12.5	16.5	200	2800	2850
1R5	1.5	9.0	100K	7.96M	15.5	20.5	160	2500	2400
2R2	2.2	10.0	100K	7.96M	20.5	27.0	130	2300	2100
3R5	3.5	9.0	100K	7.96M	32.0	42.0	90	2100	1700
4R7	4.7	8.5	100K	7.96M	36.0	47.0	80	2000	1550
6R8	6.8	7.5	100K	7.96M	50.0	65.0	60	1450	1200
100	10.0	12.0	100K	2.52M	65.0	85.0	50	1250	1050
150	15.0	12.0	100K	2.52M	100.0	130.0	40	950	800
220	22.0	12.0	100K	2.52M	160.0	210.0	28	680	650
330	33.0	13.0	100K	2.52M	220.0	290.0	23	660	560
470	47.0	13.0	100K	2.52M	330.0	430.0	18	540	450
680	68.0	12.0	100K	2.52M	480.0	620.0	16	370	360
101	100.0	15.0	100K	796K	620.0	780.0	15	320	310

Electrical Characteristics - 3633G Series

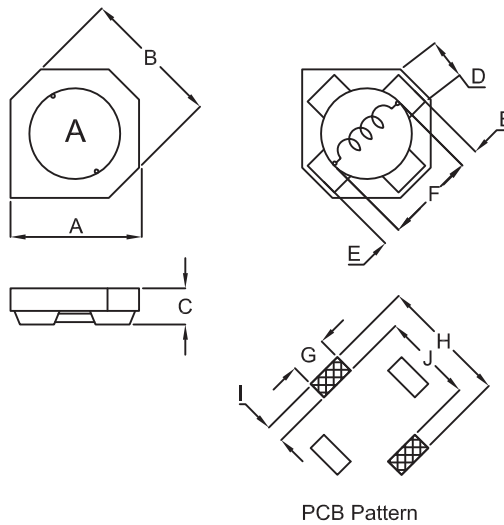
Inductance Code	Inductance (μH)	Q Ref.	Test Freq. (Hz)		R.D.C. (mΩ)		S.R.F. (MHz) Typ.	I _{rms} (mA) Max.	I _{sat} (mA) Typ.
			L	Q	Typ.	Max.			
1R2	1.2	10.0	100K	7.96M	16.8	22.0	200	3500	3400
2R2	2.2	10.0	100K	7.96M	21.0	27.0	130	3200	2500
3R3	3.3	10.0	100K	7.96M	24.0	32.0	90	2800	2100
4R7	4.7	8.0	100K	7.96M	24.0	35.0	70	2500	1500
6R8	6.8	7.2	100K	7.96M	28.0	38.0	45	2200	1200
100	10.0	10.5	100K	2.52M	46.5	60.0	35	1800	950
150	15.0	20.0	100K	2.52M	63.0	82.0	30	1500	800
220	22.0	17.0	100K	2.52M	105.0	132.0	20	1150	680
330	33.0	18.0	100K	2.52M	150.0	195.0	15	960	600
470	47.0	13.0	100K	2.52M	195.0	250.0	14	830	450
680	68.0	12.0	100K	2.52M	260.0	340.0	10	750	330
101	100.0	35.0	100K	796K	425.0	550.0	10	520	300
151	150.0	45.0	100K	796K	600.0	750.0	8	480	280
221	220.0	40.0	100K	796K	870.0	1085.0	6	360	240

Environmental Characteristics

Storage Temp:	-40°C to +125°C
Operating Temp:	-40°C to +105°C
Rated Current:	Based on Temp. Rise & ΔL/L = 35% Typ.
Temp. Rise:	40°C Typ. (30°C Typ. - D, F Series)
Standard Tolerance:	±30%

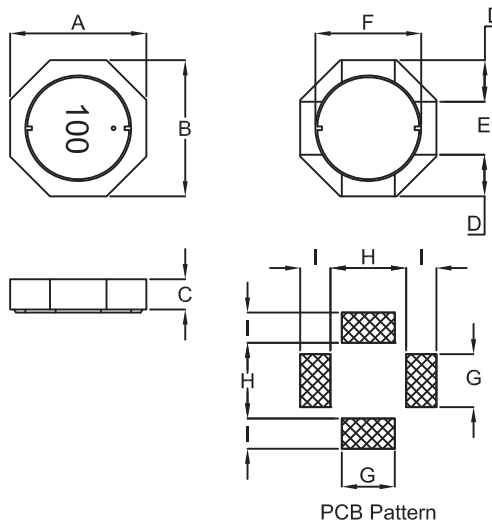
Type 3633 Series

Dimensions - A, C, D, E Series



Series	A ±0.2	B ±0.2	C	D	E typ.	F typ.	G ref.	H	I	J
3633A	3.3	3.5	0.95±0.1	1.1 typ.	0.5	2.3	1.3	4.2	1.2	1.8
3633C	3.3	3.5	1.40±0.2	1.1 typ.	0.5	2.3	1.3	4.2	1.2	1.8
3633D	3.3	3.5	1.80±0.2	1.1 typ.	0.5	2.3	1.3	4.2	1.2	1.8
3633E	3.3	3.5	2.80±0.2	1.1 typ.	0.5	2.3	1.3	4.2	1.2	1.8

Dimensions - F, G Series



Series	A ±0.2	B ±0.2	C ±0.2	D typ.	E typ.	F typ.	G ref.	H ref.	I ref.
3633F	5.2	5.2	1.8	1.7	1.8	3.9.	2.0	3.7	1.1
3633G	5.2	5.2	2.8	1.7	1.8	3.9	2.0	3.7	1.1

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Reliability Test - 3633 Series

Test Item	Specification	Test Condition
Thermal Shock Test: (Temp Cycle)	$\Delta L \leq \pm 30\%$	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:	$\Delta L \leq \pm 30\%$	Temperature: $40 \pm 2^\circ\text{C}$ Humidity: 90 ~ 95% Applied Current: Per spec. Time: 500 hours
High Temp. Resistance Test:	$\Delta L \leq \pm 30\%$	Temperature: $105 \pm 2^\circ\text{C}$ Applied Current: Per spec. Time: 500 hours

How to Order

3633	A	6R8	N
Common Part	Style	Inductance	Tolerance
3633	A, C, D, E, F or G	See Relevant Table for Inductance Code	N - 30%

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