

Type 3613C Series



Specially developed for automatic mounting applications, this exciting range of chip inductors are ferrite based and sealed in a thermoset plastic body. They employ solder coated copper terminations with barrier layer. Customers can therefore expect consistent quality, performance and reliability. Its smooth top surface makes it particularly well suited to pick and place equipments.

Truly the last word in 1812 chip inductors.

Key Features

- High Reliability
- Small Versatile Size -3.2 x 4.5 mm
- Temperature Range -30°C to +100°C
- Supplied in Standard **Carrier Tape**
- Suitable for Dip and Wave Solder
- Insulation 1000M R min
- Available from Stock



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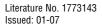
Characteristics -Style Opening

Nominal Inductance (µH)	Value Coding Marking	Inductance Tolerance (±%)	Q (min)	Self Resonant Frequency (MHz) (min)	DC Resistance (ohms max)	Allowance DC (mA)	Measuring Frequency (MHz)
0.10	R10M	±20%	35	300	0.18	800	25.2
0.12	R12M	±20%	35	280	0.20	770	25.2
0.15	R15M	±20%	35	250	0.22	730	25.2
0.18	R18M	±20%	35	220	0.24	700	25.2
0.22	R22M	±20%	40	200	0.25	665	25.2
0.27	R27M	±20%	40	180	0.26	635	25.2
0.33	R33M	±20%	40	165	0.28	605	25.2
0.39	R39M	±20%	40	150	0.30	575	25.2
0.47	R47M	±20%	40	145	0.32	545	25.2
0.56	R56M	±20%	40	140	0.36	520	25.2
0.68	R68M	±20%	40	135	0.40	500	25.2
0.82	R82M	±20%	40	130	0.45	475	25.2
1.0	1R0K	±10%	50	100	0.50	450	7.96
1.2	1R2K	±10%	50	80	0.55	430	7.96
1.5	1R5K	±10%	50	70	0.60	410	7.96
1.8	1R8K	±10%	50	60	0.65	390	7.96
2.2	2R2K	±10%	50	55	0.70	380	7.96
2.7	2R7K	±10%	50	50	0.75	370	7.96
3.3	3R3K	±10%	50	45	0.80	355	7.96
3.9	3R9K	±10%	50	40	0.90	330	7.96
4.7	4R7K	±10%	50	35	1.00	315	7.96
5.6	5R6K	±10%	50	33	1.10	300	7.96
6.8	6R8K	±10%	50	27	1.20	285	7.96
8.2	8R2K	±10%	50	25	1.40	270	7.96
10.0	100K	±10% ±10%	50	20	1.60	250	2.52
12.0	120K	±10% ±10%	50	18	2.00	225	2.52
15.0	150K	±10%	50	17	2.50	200	2.52
18.0	180K	±10%	50	15	2.80	190	2.52
22.0	220K	±10%	50	13	3.20	180	2.52
27.0	270K	±10%	50	12	3.60	170	2.52
33.0	330K	±10%	50	11	4.00	160	2.52
39.0	390K	±10%	50	10	4.50	150	2.52
47.0	470K	±10%	50	10	5.00	140	2.52
56.0	560K	±10%	50	9.0	5.50	135	2.52
68.0	680K	±10%	50	9.0	6.00	130	2.52
82.0	820K	±10%	50	8.0	7.00	120	2.52
100	101K	±10%	40	8.0	8.00	110	0.796
120	121K	±10%	40	6.0	8.00	110	0.796
150	151K	±10%	40	5.0	9.00	105	0.796
180	181K	±10%	40	5.0	9.50	102	0.796
220	221K	±10%	40	4.0	10.0	100	0.796
270	271K	±10%	40	4.0	12.0	92	0.796
330	331K	±10%	40	3.5	14.0	85	0.796
390	391K	±10%	40	3.0	18.0	80	0.796
470	471K	±10%	40	3.0	26.0	62	0.796
560	561K	±10%	30	3.0	30.0	50	0.796
680	681K	±10%	30	3.0	30.0	50	0.796
820	821K	±10%	30	2.5	35.0	30	0.796
1000	102K	±10%	20	2.5	40.0	30	0.252

5% Tolerance available on selected value ranges. Please enquire

Characteristics -Environmental

Insulation:	1000 M ohms
Temperature Range:	-30°C to +100°C
Humidity Load life:	ΔL/L within ±10%
Vibration (see test method):	ΔL/L within ±5%



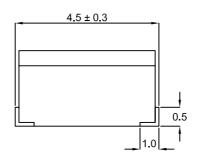


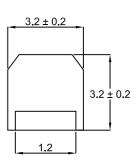
Moulded Chip Inductor 18:12



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Dimensions





Test Methods

DC Superposition Characteristics AL/L Within -10% When the allowable current was applied, the inductance we with a YHP 4262A and compared with the initial value. Temperature Within 20°C When the allowable current was applied, the amount of terms of the superposition of the superposition.	
Temperature Within 20°C When the allowable current was applied, the amount of ter	nperature rise
Rise was measured by the change in resistance.	•
Temperature $\Delta L/L$ Within \pm 5%Measurements were taken in a temperature range of -25°CRisethe value at +20°C was used as the standard value.	to 85°C and
Overcurrent No smoke and no fire Twice the allowable current was applied for a period of five Test	e minutes.
Insulation Not less than 1000 M 0.3mm diameter copper wires were wound around the coil measurements were taken after 250VDC was applied between terminals for a period of 1 minute.	
Tensile No separation from substrate After the inductors were soldered to substrates, a force of the x and y directions for a period of 5 seconds.	1.0kg was applied in both
Stress Test No breakage After the inductors were mounted on substrates, 1-mins. 1 sweeps 1.5mm stroke vibrations were applied for 2 hrs. ea	
Drop Test No pronounced abnormality in The inductors were dropped 10 times from a height of 1.0 appearance	metre onto a concrete floor.
Vibration Test $\Delta L/L$ Within \pm 10%After the inductors were mounted on substrates, 1-mins. 1Q Not less than 30sweeps 1.5mm stroke vibrations were applied for 2 hours directions	
Humidity Resistance $\Delta L/L$ Within \pm 10%Measurements were taken after the allowable current wasLoad TestQ Not less than 30were stored at 60° C \pm 2°C in 90 to 95% RH for a period of	
Low Temperature $\Delta L/L$ Within \pm 10%Measurements were taken after the inductors were storedResistance TestQ Not less than 301000 hours	at -40°C ± 2°C for period
Temperature $\Delta L/L$ Within \pm 10%Measurements were taken after the inductors were storedCycle TestQ Not less than 30they were subjected to 20 temperature cycles of between -	
High Temperature $\Delta L/L$ Within \pm 10%Measurements were taken after the allowable was appliedResistance Load TestQ Not less than 30at 85°C for a period of 1000 hours.	while the inductors were stored

Test Notes

The measuring method for the test data given overpage are as follows:

Inductance: Direct reading from Q-meter (equivalent to YHP 4342A, jig used)

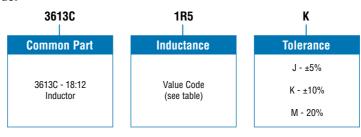
 ${\bf Q}$: Direct reading from Q-meter (equivalent to YHP 4342A, jig used)

Self resonant frequency: Grid Dipo Meter (equivalent to Measurement M159)

DC resistance: Wheatstone bridge (equivalent to YEW 2755)

Unless otherwise specified, the temperature is 20°C \pm 5°C and the humidity is 65% \pm 20%

How to Order



Literature No. 1773143 Issued: 01-07

Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

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单击下面可查看定价,库存,交付和生命周期等信息

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