

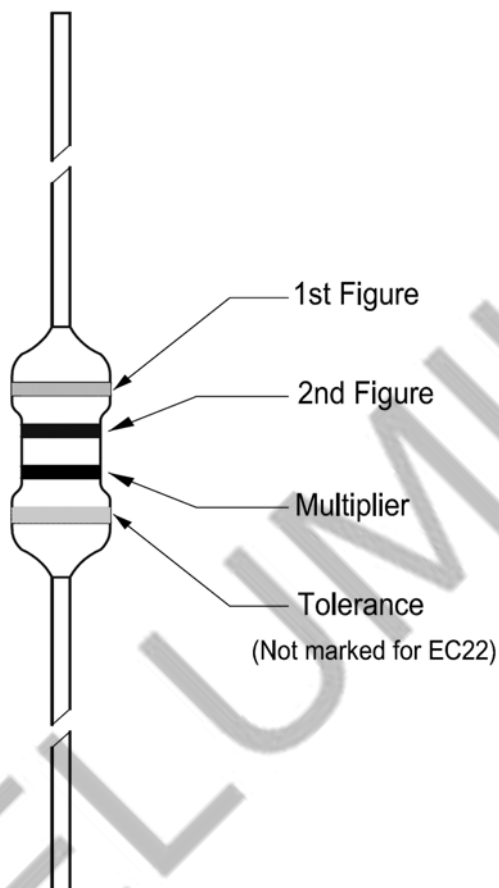
AXIAL LEADED COATED INDUCTORS

CHA0307-SERIE

In CHA0307 Type series color band are marked for identification. These bands

indicate inductance value and tolerance. For values below 0.1uH, Gold indicates the decimal point and the next three bands indicate inductance value.

There is no tolerance marked for values below 0.1uH.

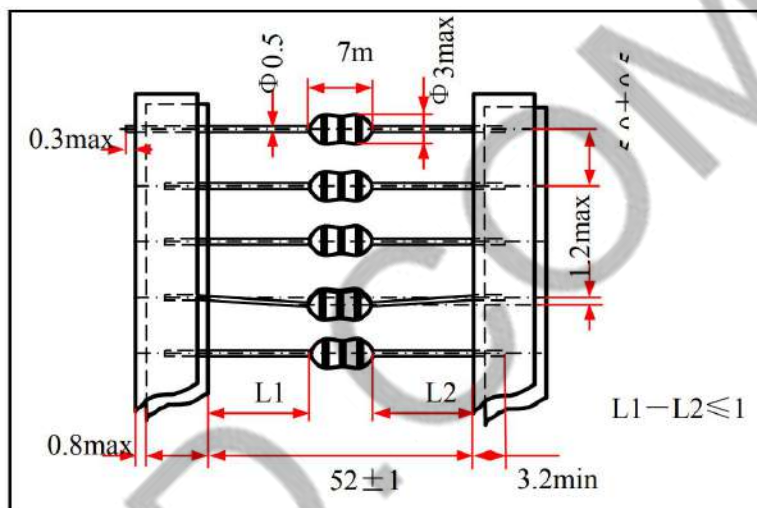


Color	Nominal inductance (uH)			
	First figure	Second figure	Multiplier	Tolerance
Black (Bk)	0		1	±20%
Brown (Bn)	1		10	-
Red (R)	2		100	-
Orange (O)	3		1000	-
Yellow (Y)	4		-	-
Green (Gn)	5		-	-
Blue (Be)	6		-	-
Violet (V)	7		-	-
Gray (Gy)	8		-	-
White (W)	9		-	-
Silver (S)	-		0.01	±10%
Gold (Gd)	-		0.10	±5%
Example	Green	Blue	Black	Silver
56uH				
±10%				

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Shape and Size : (Dimensions are in mm)



Features :

- Conformal coated inductors .
- Treated with epoxy resin coating makes it high reliability.
- with special magnetic core structure, contributes to high Q and high SRF.
- EC23 / EC24 / EC36 for inductance below 1.0uH use ceramic core.
- Tape and reel packaging for automatic insertion.

Test equipments and test setup :

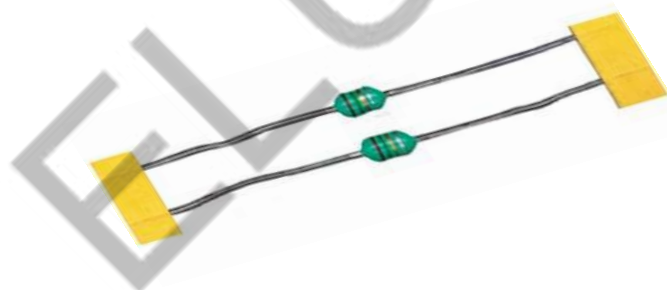
- L & Q: HP 4285A with HP42851A (Freq. >7⁵kHz).
- L & Q: HP 4284A (Freq.<75kHz).
- DCR : Milli-ohm meter.
- SRF : HM 9461 L-SRF meter.
- Electrical specifications at 25°C.

Inductance and rated current ranges :

- 0.10uH ~ 1.0mH 700mA ~ 60mA

Characteristics :

- Rated DC Current: It is either the inductance is 10% lower than its initial value in D.C. saturation characteristics or temperature raise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temperature ranges: -20 to 80°C .
- Storage temperature ranges: -40 to 80°C .
- Dielectric with standing voltage: 250V AC r.m.s.



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ID	Value(uH)	Our Model No.	L (uH)	Dimension (mm)	DCR (ohm) Max	DCI (A)
1	1.5	CHA0307-1.5UH	1.5±10%	See below	1.00	0.25
2	4.7	CHA0307-4.7UH	4.7±10%	See below	1.70	0.19
3	6.8	CHA0307-6.8UH	6.8±10%	See below	2.00	0.17
4	10.0	CHA0307-10UH	10±10%	See below	2.50	0.16
5	12.0	CHA0307-12UH	12±10%	See below	2.50	0.15
6	15.0	CHA0307-15UH	15±10%	See below	2.80	0.14
7	18.0	CHA0307-18UH	18±10%	See below	3.10	0.14
8	22.0	CHA0307-22UH	22±10%	See below	3.40	0.13
9	33.0	CHA0307-33UH	33±10%	See below	4.10	0.12
10	47.0	CHA0307-47UH	47±10%	See below	4.90	0.11
11	100.0	CHA0307-100UH	100±10%	See below	7.00	0.09
12	150.0	CHA0307-150UH	150±10%	See below	15.00	0.08
13	220.0	CHA0307-220UH	220±10%	See below	17.00	0.07
14	330.0	CHA0307-330UH	330±10%	See below	20.00	0.06
15	470.0	CHA0307-470UH	470±10%	See below	24.00	0.05
16	1000.0	CHA0307-1000UH	1000±10%	See below	33.00	0.04