



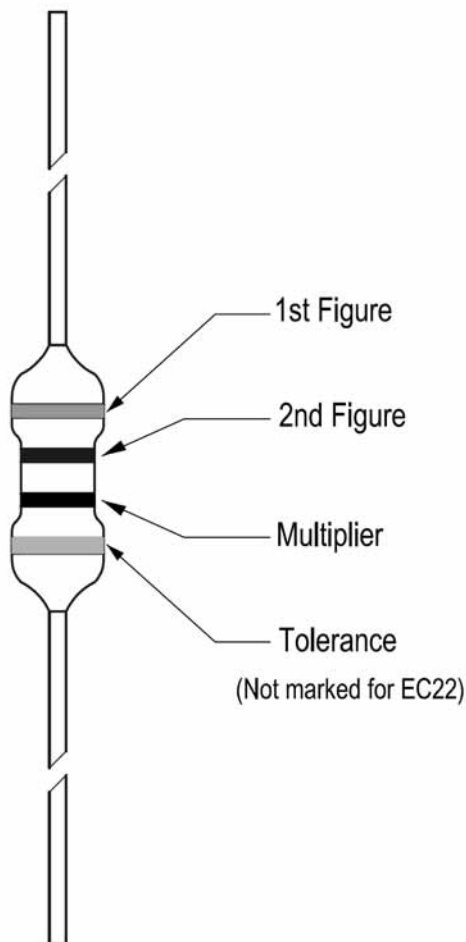
AXIAL LEADED COATED INDUCTORS

EC TYPE COLOR CODE GUIDE

In EC 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.

In EC22 series due to limitation in size, only three color bands indicating inductance value are marked without decimal value and tolerance.



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				
56uH	Green	Blue	Black	Silver
±10%				





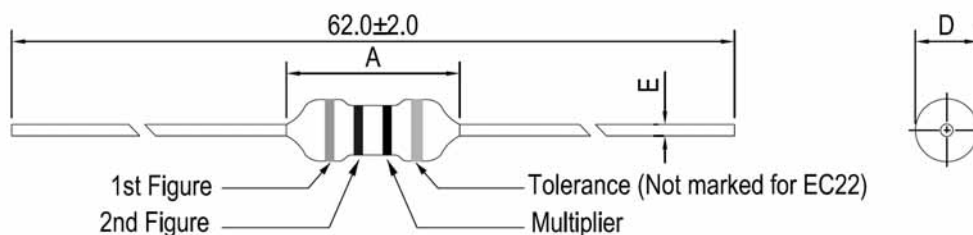
AXIAL LEADED COATED INDUCTORS

EC22 / 23 / 24 / 36 / 38 / 46 / 0410 TYPE

Shape and Size : (Dimensions are in mm)



3L P/N	A	D	E
EC22	4.0max	2.8max	0.50±0.05
EC23	6.35max	2.3max	0.50±0.05
EC24	8.0max	3.0max	0.55±0.05
EC36	11.0max	4.0max	0.65±0.05
EC38	12.7max	4.2max	0.65±0.05
EC46	12.0max	5.0max	0.65±0.05
EC0410	15.0max	5.0max	0.65±0.05



Features :

- Conformal coated inductors .
- Treated with epoxy resin coating makes it high reliability.
- EC22/24/36/46 with special magnetic core structure. contributes to high Q and high SRF.
- EC38 / 0410 for power application.
- EC23 / EC24 / EC36 for inductance below 1.0uH use ceramic core.
- Tape and reel packaging for automatic insertion.

Ordering information :

EC 24 - 560 K - T5A

- (1) (2) (3) (4) (5)
- (1) Type: Epoxy Coated.
- (2) Style: According to core size.
- (3) Inductance: Example: "560" for 56uH.
- (4) Tolerance: "M" : ±20% ; "K" : ±10% ; "J" : ±5% .
- (5) Other information: "T5, T2, T5A, TF4, TF5, TF6" represents the Packing Mode, No code: Bulk. "U, F" represents the shape.

Inductance and rated current ranges :

• EC22	0.10uH ~ 1.0mH	700mA ~ 20mA
• EC23	0.047uH ~ 0.82uH	1.2A ~ 260mA
• EC24	0.10uH ~ 1.0mH	700mA ~ 60mA
• EC36	0.10uH ~ 1.0muH	900mA ~ 100mA
• EC38	1.0uH ~ 10.0mH	3.0A ~ 30mA
• EC46	1.2mH ~ 33mH	110mA ~ 20mA
• EC0410	1.0uH ~ 47mH	3.8A ~ 100mA

Characteristics :

- Rated Current: Obtained when temperature rise to 20°C or the initial inductance drop by 10%, whichever is smaller.
- Operating temperature ranges: -20 to 80° C.
- Storage temperature ranges: -40 to 80° C.
- Dielectric with standing voltage: 250V AC r.m.s.

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.

Applications:

- Televisions, personal computers.
- Radios, telephones.
- Others various electronic products.

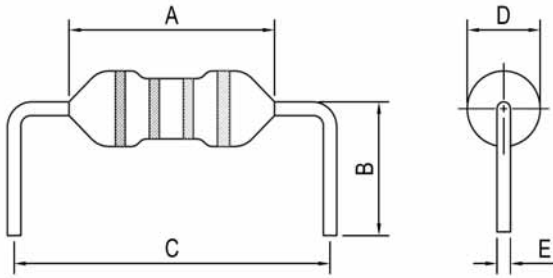




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EC TYPE FORMING DIMENSIONS

U Shape and Size : (Dimensions are in mm)



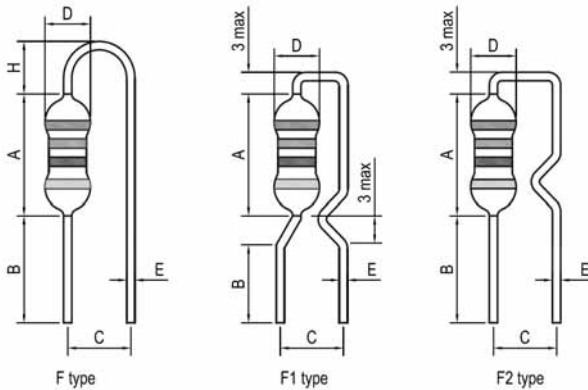
Ordering information :

EC36 - _____ - U __ X __
 (1) (2) (3)

- (1) Inductance and tolerance.
- (2) Lead pitch (size C).
- (3) Lead length (size B).

Type	A	B	C	D	E
EC22- -U X	4.0 Max	4.0 Min	6 ~ 15	2.8 Max	0.50
EC23- -U X	6.35 Max	4.0 Min	7.5 ~ 15	2.3 Max	0.50
EC24- -U X	8.0 Max	4.0 Min	10 ~ 20	3.0 Max	0.55
EC36- -U X	11.0 Max	4.0 Min	12.5 ~ 20	4.0 Max	0.65
EC38- -U X	12.7 Max	4.0 Min	15 ~ 20	4.2 Max	0.65
EC46- -U X	12.0 Max	4.0 Min	12.5 ~ 20	5.0 Max	0.65
EC0410- -U X	15.0 Max	4.0 Min	17.5 ~ 25	5.0 Max	0.65

F Shape and Size : (Dimensions are in mm)



Ordering information :

EC36 - _____ - F __
 (1) (2)

- (1) Inductance and tolerance.
- (2) Forming shape.

Type	A	B	C	D	E	H
EC22- -F / F1 / F2	4.0 Max	4.0 Min	5.0 Ref	2.8 Max	0.50	3.0 Max
EC23- -F / F1 / F2	6.35 Max	4.0 Min	5.0 Ref	2.3 Max	0.50	3.0 Max
EC24- -F / F1 / F2	8.0 Max	4.0 Min	5.0 Ref	3.0 Max	0.55	3.0 Max
EC36- -F / F2	11.0 Max	4.0 Min	5.0 Ref	4.0 Max	0.65	4.0 Max
EC38- -F / F2	12.7 Max	4.0 Min	5.0 Ref	4.2 Max	0.65	4.0 Max
EC46- -F / F2	12.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	4.0 Max
EC0410- -F / F2	15.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	5.0 Max

