

CONFORMAL COATED INDUCTORS

EC 24 TYPE

The EC24 type choke coil incorporates a high-performance ferrite core in a small special structure. It is resin coated and achieves Inductance values up to 1,000 μ H.

FEATURES

- 1) Incorporation of a special lead wire structure entirely eliminates defects inherent in existing axial lead type products and prevents lead breakage.
- 2) The special magnetic core structure permits the product to have both reduced size and high-Q, self-resonant frequencies.
- 3) The products are epoxy-resin coated against humidity to ensure longer life.

ORDERING INFORMATION

EC 24 - 330 K
 (1) (2) (3) (4)

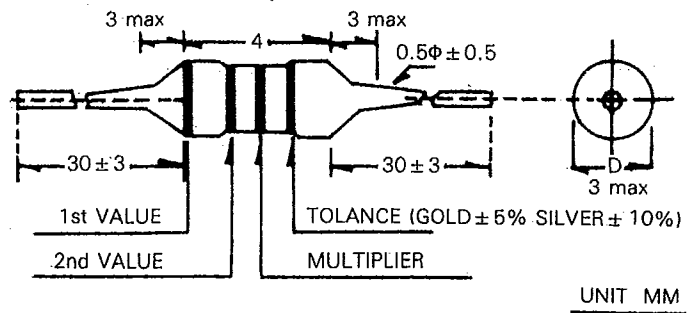
- (1) Type
- (2) Dimension (mm)
- (3) Inductance value (33 μ H)
- (4) Inductance tolerance (J: \pm 5%, K: \pm 10% M: \pm 20%)

CHARACTERISTICS

- Style Axial lead type
- Temperature rise 20°C
- Ambient temperature 80°C
- Rated temperature range -20°C to + 100°C
- Dielectric withstanding voltage 250 Vr.m.s.
- Rated current Based on temperature rise
- Terminal tensile strength 1.0 kg min.
- Terminal bending strength 0.3 kg min.
- Moisture resistance characteristic.
 $\Delta L/L \leq \pm 5\%$, $\Delta Q/Q \leq \pm 20\%$

COLOR CODE

Inductance values are indicated with color code as shown below.



Color code	Significant figure	Multiplier	Inductance tolerance(%)
Black	0	1	—
Brown	1	10	—
Red	2	100	—
Orange	3	1000	—
Yellow	4	—	—
Green	5	—	—
Blue	6	—	—
Violet	7	—	—
Gray	8	—	—
White	9	—	—
Black	—	—	± 20
Silver	—	0.01	± 10
Gold	—	0.1	± 5

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NO	Part NO.	Inductance (μ H)	Q min.	Testing frequency of L & Q (MHz)	S.R.F. DC		Rated DC current (mA) max.	Color code			
					min.	max.		1st	2nd	3rd	4th
1.	EC24-R10K	0.1 \pm 10%	40	25.2	470	0.08	700	Bn	Bk	S	S
2.	EC24-R12K	0.12 \pm 10%	40	25.2	450	0.08	700	Bn	R	S	S
3.	EC24-R15K	0.15 \pm 10%	40	25.2	430	0.09	700	Bn	Gn	S	S
4.	EC24-R18K	0.18 \pm 10%	40	25.2	410	0.10	700	Bn	Gy	S	S
5.	EC24-R22K	0.22 \pm 10%	40	25.2	380	0.12	700	R	R	S	S
6.	EC24-R27K	0.27 \pm 10%	40	25.2	360	0.15	680	R	V	S	S
7.	EC24-R33K	0.33 \pm 10%	40	25.2	350	0.16	680	O	O	S	S
8.	EC24-R39K	0.39 \pm 10%	40	25.2	320	0.18	680	O	W	S	S
9.	EC24-R47K	0.47 \pm 10%	40	25.2	300	0.26	650	Y	V	S	S
10.	EC24-R56K	0.56 \pm 10%	40	25.2	280	0.38	500	Gn	Be	S	S
11.	EC24-R68K	0.68 \pm 10%	40	25.2	250	0.42	500	Be	Gy	S	S
12.	EC24-R82K	0.82 \pm 10%	40	25.2	200	0.55	450	Gy	R	S	S
13.	EC24-1R0K	1.0 \pm 10%	40	25.2	180	0.12	700	Bn	Bk	Gd	S
14.	EC24-1R2K	1.2 \pm 10%	40	7.96	165	0.18	700	Bn	R	Gd	S
15.	EC24-1R5K	1.5 \pm 10%	45	7.96	150	0.20	700	Bn	Gn	Gd	S
16.	EC24-1R8K	1.8 \pm 10%	50	7.96	125	0.23	655	Bn	Gy	Gd	S
17.	EC24-2R2K	2.2 \pm 10%	50	7.96	85	0.25	630	R	R	Gd	S
18.	EC24-2R7K	2.7 \pm 10%	50	7.96	80	0.28	595	R	V	Gd	S
19.	EC24-3R3K	3.3 \pm 10%	50	7.96	75	0.30	575	O	O	Gd	S
20.	EC24-3R9K	3.9 \pm 10%	45	7.96	65	0.32	555	O	W	Gd	S
21.	EC24-4R7K	4.7 \pm 10%	45	7.96	45	0.35	530	Y	V	Gd	S
22.	EC24-5R6K	5.6 \pm 10%	45	7.96	36	0.40	500	Gn	Be	Gd	S
23.	EC24-6R8K	6.8 \pm 10%	40	7.96	30	0.45	470	Be	Gy	Gd	S
24.	EC24-8R2K	8.2 \pm 10%	40	7.96	28	0.55	425	Gy	R	Gd	S
25.	EC24-100K	10 \pm 10%	40	7.96	22	0.72	370	Bn	Bk	Bk	S
26.	EC24-120K	12 \pm 10%	45	2.52	20	0.80	350	Bn	R	Bk	S
27.	EC24-150K	15 \pm 10%	50	2.52	16	0.88	335	Bn	Gn	Bk	S
28.	EC24-180K	18 \pm 10%	50	2.52	15	1.00	315	Bn	Gy	Bk	S
29.	EC24-220K	22 \pm 10%	50	2.52	13	1.20	285	R	R	Bk	S
30.	EC24-270K	27 \pm 10%	50	2.52	11	1.35	270	R	V	Bk	S
31.	EC24-330K	33 \pm 10%	50	2.52	10	1.50	255	O	O	Bk	S
32.	EC24-390K	39 \pm 10%	50	2.52	9.5	1.70	240	O	W	Bk	S
33.	EC24-470K	47 \pm 10%	60	2.52	8.5	2.30	205	Y	V	Bk	S
34.	EC24-560K	56 \pm 10%	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
35.	EC24-680K	68 \pm 10%	60	2.52	6.5	3.20	185	Be	Gy	Bk	S
36.	EC24-820K	82 \pm 10%	60	2.52	6.0	3.50	175	G	R	Bk	S
37.	EC24-101K	100 \pm 10%	60	2.52	5.5	3.80	165	Bn	Bk	Bn	S
38.	EC24-121K	120 \pm 10%	60	0.796	5.4	3.80	160	Bn	R	Bn	S
39.	EC24-151K	150 \pm 10%	60	0.796	4.75	4.40	150	Bn	Gn	Bn	S
40.	EC24-181K	180 \pm 10%	60	0.796	4.35	5.00	140	Bn	Gy	Bn	S
41.	EC24-221K	220 \pm 10%	60	0.796	4.0	5.70	130	R	R	Bn	S
42.	EC24-271K	270 \pm 10%	60	0.796	3.7	6.50	120	R	V	Bn	S
43.	EC24-331K	330 \pm 10%	60	0.796	3.4	9.50	100	O	O	Bn	S
44.	EC24-391K	390 \pm 10%	60	0.796	2.8	10.5	95	O	W	Bn	S
45.	EC24-471K	470 \pm 10%	60	0.796	2.40	12.5	90	Y	V	Bn	S
46.	EC24-561K	560 \pm 10%	60	0.796	2.20	14.5	85	Gn	Be	Bn	S
47.	EC24-681K	680 \pm 10%	60	0.796	2.0	18.0	75	Be	Gy	Bn	S
48.	EC24-821K	820 \pm 10%	60	0.796	1.6	23.7	65	Gy	R	Bn	S
49.	EC24-102K	1000 \pm 10%	60	0.796	1.15	30	60	Bn	Bk	R	S