

# CONFORMAL COATED INDUCTORS

## ICF-3

The ICF-3 type choke coil incorporates a high-performance ferrite core in a special small structure. It is resin coated and has inductance values up to 1,000  $\mu\text{H}$ .

## FEATURES

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

## ORDERING INFORMATION

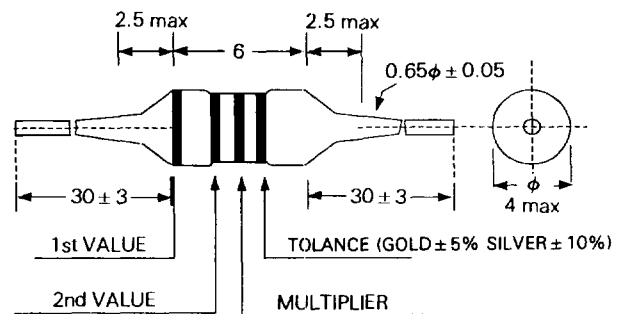
ICF-3      47 $\mu\text{H}$       10  
 (1)      (2)      (3)

- (1) Type
- (2) Inductance ( $\mu\text{H}$ )
- (3) Inductance Tolerance ( $\pm 5\%$ ,  $\pm 10\%$  or  $\pm 20\%$ )

## CHARACTERISTICS

Style.....Axial lead type  
 Max. temperature rise.....20° C  
 Ambient temperature.....80° C  
 Rated temperature range.....-20° C to + 100° C  
 Dielectric breakdown voltage.....250 V<sub>rms</sub>  
 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



UNIT: MM

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	—	—	$\pm 20$
Silver	—	0.01	$\pm 10$
Gold	—	0.1	$\pm 5$

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## ICF-3 TYPE

INDUCTANCE ( $\mu$ H)	Q MIN.	TESTING FREQUENCY OF L & Q (MHz)	S.R.F. (MHz) MIN.	DC RESISTANCE ( $\Omega$ ) MAX.	RATED DC CURRENT (mA) MAX.	COLOR CODE			
						1st	2nd	3rd	4th
0.1 $\pm$ 10%	50	25.2	470	0.04	900	Bn	Bk	S	S
0.12 $\pm$ 10%	50	25.2	450	0.06	900	Bn	R	S	S
0.15 $\pm$ 10%	50	25.2	430	0.07	890	Bn	Gn	S	S
0.18 $\pm$ 10%	50	25.2	410	0.07	890	Bn	Gy	S	S
0.22 $\pm$ 10%	50	25.2	380	0.08	880	R	R	S	S
0.27 $\pm$ 10%	50	25.2	340	0.09	800	R	V	S	S
0.33 $\pm$ 10%	50	25.2	300	0.10	750	O	O	S	S
0.39 $\pm$ 10%	50	25.2	280	0.12	680	O	W	S	S
0.47 $\pm$ 10%	50	25.2	250	0.16	650	Y	V	S	S
0.56 $\pm$ 10%	50	25.2	230	0.18	600	Gn	Be	S	S
0.68 $\pm$ 10%	50	25.2	210	0.22	550	Be	Gy	S	S
0.82 $\pm$ 10%	50	25.2	172	0.24	980	Gy	R	S	S
1.0 $\pm$ 10%	50	25.2	157	0.09	920	Bn	Bk	Gd	S
1.2 $\pm$ 10%	50	7.96	144	0.10	880	Bn	R	Gd	S
1.5 $\pm$ 10%	50	7.96	131	0.23	830	Bn	Gn	Gd	S
1.8 $\pm$ 10%	55	7.96	121	0.25	790	En	Gy	Gd	S
2.2 $\pm$ 10%	55	7.96	110	0.28	750	R	R	Gd	S
2.7 $\pm$ 10%	60	7.96	100	0.30	720	R	V	Gd	S
3.3 $\pm$ 10%	65	7.96	94	0.34	670	O	O	Gd	S
3.9 $\pm$ 10%	65	7.96	86	0.37	640	O	W	Gd	S
4.7 $\pm$ 10%	70	7.96	80	0.39	620	Y	V	Gd	S
5.6 $\pm$ 10%	70	7.96	74	0.43	590	Gn	Be	Gd	S
6.8 $\pm$ 10%	75	7.96	58	0.48	550	Be	Gy	Gd	S
8.2 $\pm$ 10%	80	7.96	53	0.52	530	Gy	R	Gd	S
10 $\pm$ 10%	85	7.96	45	0.58	500	Bn	Bk	Bk	S
12 $\pm$ 10%	75	2.52	30	0.63	480	Bn	R	Bk	S
15 $\pm$ 10%	70	2.52	20	0.72	460	Bn	Gn	Bk	S
18 $\pm$ 10%	65	2.52	14	0.77	430	Bn	Gy	Bk	S
22 $\pm$ 10%	40	2.52	9.9	0.84	410	R	R	Bk	S
27 $\pm$ 10%	55	2.52	7.6	0.94	390	R	V	Bk	S
33 $\pm$ 10%	55	2.52	6.3	1.03	370	O	O	Bk	S
39 $\pm$ 10%	50	2.52	6.3	1.12	350	O	W	Bk	S
47 $\pm$ 10%	45	2.52	6.3	1.22	340	Y	V	Bk	S
56 $\pm$ 10%	40	2.52	6.2	1.34	320	Gn	Be	Bk	S
68 $\pm$ 10%	40	2.52	5.7	1.47	305	Be	Gy	Bk	S
82 $\pm$ 10%	35	2.52	5.3	1.62	290	Gy	R	Bk	S
100 $\pm$ 10%	30	2.52	4.8	1.80	275	Bn	Bk	Bn	S
120 $\pm$ 10%	70	0.796	3.8	3.70	185	Bn	R	Bn	S
150 $\pm$ 10%	70	0.796	3.5	4.20	175	Bn	Gn	Bn	S
180 $\pm$ 10%	70	0.796	3.3	4.60	165	Bn	Gy	Bn	S
220 $\pm$ 10%	70	0.796	3.0	5.10	155	R	R	Bn	S
270 $\pm$ 10%	65	0.796	2.8	5.80	145	R	V	Bn	S
330 $\pm$ 10%	65	0.796	2.6	6.40	137	O	O	Bn	S
390 $\pm$ 10%	65	0.796	2.4	7.00	133	O	W	Bn	S
470 $\pm$ 10%	60	0.796	2.25	7.70	126	Y	V	Bn	S
560 $\pm$ 10%	60	0.796	2.1	8.50	120	Gn	Be	Bn	S
680 $\pm$ 10%	55	0.796	1.95	9.40	113	Be	Gy	Bn	S
820 $\pm$ 10%	55	0.796	1.85	12.0	100	Gy	R	Bn	S
1,000 $\pm$ 10%	50	0.252	1.4	17.4	100	Bn	Bk	R	S