

# CONFORMAL COATED INDUCTORS

## ICF-1

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

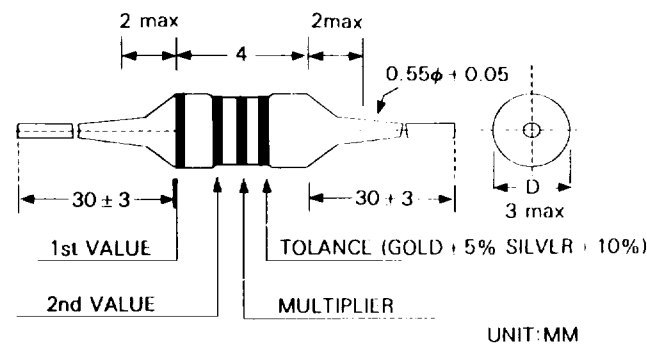
ICF-1      47 $\mu$ H      10  
 (1)          (2)          (3)

- (1) Type
- (2) Inductance ( $\mu$ 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



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	$\pm 5$

# FOR VHF & UHF

## ICF-1 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
22Nh $\pm$ 20%(460.5pf)	40	50MHZ	500	0.01	520	GD	BK	RD	RD
33Nh $\pm$ 20%(306.8pf)	40	50MHZ	490	0.02	500	GD	BK	OE	OE
39Nh $\pm$ 20%(259.6pf)	40	50MHZ	480	0.02	500	GD	BK	OE	WE
47Nh $\pm$ 20%(215pf)	40	50MHZ	480	0.03	500	GD	BK	YW	VT
56Nh $\pm$ 20%(180.8pf)	40	50MHZ	470	0.045	460	GD	BK	GN	BE
68Nh $\pm$ 20%(149pf)	40	50MHZ	470	0.05	460	GD	BK	BE	GY
82Nh $\pm$ 20%(123.5pf)	40	50MHZ	470	0.05	460	GD	BK	GY	RD
0.1 $\pm$ 10%	40	25.2	470	0.08	700	Bn	Bk	S	S
0.12 $\pm$ 10%	40	25.2	450	0.08	700	Bn	R	S	S
0.15 $\pm$ 10%	40	25.2	430	0.09	700	Bn	Gn	S	S
0.18 $\pm$ 10%	40	25.2	410	0.10	700	Bn	Gy	S	S
0.22 $\pm$ 10%	40	25.2	380	0.12	700	R	R	S	S
0.27 $\pm$ 10%	40	25.2	360	0.15	680	R	V	S	S
0.33 $\pm$ 10%	40	25.2	350	0.16	680	O	O	S	S
0.39 $\pm$ 10%	40	25.2	320	0.18	680	O	W	S	S
0.47 $\pm$ 10%	40	25.2	300	0.26	650	Y	V	S	S
0.56 $\pm$ 10%	40	25.2	280	0.38	500	Gn	Be	S	S
0.68 $\pm$ 10%	40	25.2	250	0.42	500	Be	Gy	S	S
0.82 $\pm$ 10%	40	25.2	200	0.55	450	Gy	R	S	S
1.0 $\pm$ 10%	40	25.2	180	0.12	700	Bn	Bk	Gd	S
1.2 $\pm$ 10%	40	7.96	165	0.18	700	Bn	R	Gd	S
1.5 $\pm$ 10%	45	7.96	150	0.20	700	Bn	Gn	Gd	S
1.8 $\pm$ 10%	50	7.96	125	0.23	655	Bn	Gy	Gd	S
2.2 $\pm$ 10%	50	7.96	85	0.25	630	R	R	Gd	S
2.7 $\pm$ 10%	50	7.96	80	0.28	595	R	V	Gd	S
3.3 $\pm$ 10%	50	7.96	75	0.30	575	O	O	Gd	S
3.9 $\pm$ 10%	45	7.96	65	0.32	555	O	W	Gd	S
4.7 $\pm$ 10%	45	7.96	45	0.35	530	Y	V	Gd	S
5.6 $\pm$ 10%	45	7.96	36	0.40	500	Gn	Be	Gd	S
6.8 $\pm$ 10%	40	7.96	30	0.45	470	Be	Gy	Gd	S
8.2 $\pm$ 10%	40	7.96	28	0.55	425	Gy	R	Gd	S
10 $\pm$ 10%	40	7.96	22	0.72	370	Bn	Bk	Bk	S
12 $\pm$ 10%	45	2.52	20	0.80	350	Bn	R	Bk	S
15 $\pm$ 10%	50	2.52	16	0.88	335	Bn	Gn	Bk	S
18 $\pm$ 10%	50	2.52	15	1.00	315	Bn	Gy	Bk	S
22 $\pm$ 10%	50	2.52	13	1.20	285	R	R	Bk	S
27 $\pm$ 10%	50	2.52	11	1.35	270	R	V	Bk	S
33 $\pm$ 10%	50	2.52	10	1.50	255	O	O	Bk	S
39 $\pm$ 10%	50	2.52	9.5	1.70	240	O	W	Bk	S
47 $\pm$ 10%	60	2.52	8.5	2.30	205	Y	V	Bk	S
56 $\pm$ 10%	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
68 $\pm$ 10%	60	2.52	6.5	3.20	185	Be	Gy	Bk	S
82 $\pm$ 10%	60	2.52	6.0	3.50	175	G	R	Bk	S
100 $\pm$ 10%	60	2.52	5.5	3.80	165	Bn	Bk	Bn	S
120 $\pm$ 10%	60	0.796	5.4	3.80	160	Bn	R	Bn	S
150 $\pm$ 10%	60	0.796	4.75	4.40	150	Bn	Gn	Bn	S
180 $\pm$ 10%	60	0.796	4.35	5.00	140	Bn	Gy	Bn	S
220 $\pm$ 10%	60	0.796	4.0	5.70	130	R	R	Bn	S
270 $\pm$ 10%	60	0.796	3.7	6.50	120	R	V	Bn	S
330 $\pm$ 10%	60	0.796	3.4	9.50	100	O	O	Bn	S
390 $\pm$ 10%	60	0.796	2.8	10.5	95	O	W	Bn	S
470 $\pm$ 10%	60	0.796	2.40	12.5	90	Y	V	Bn	S
560 $\pm$ 10%	60	0.796	2.20	14.5	85	Gn	Be	Bn	S
680 $\pm$ 10%	60	0.796	2.0	18.0	75	Be	Gy	Bn	S
820 $\pm$ 10%	60	0.796	1.6	23.7	65	Gy	R	Bn	S
1000 $\pm$ 10%	60	0.796	1.15	30	60	Bn	Bk	R	S