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 μH.

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

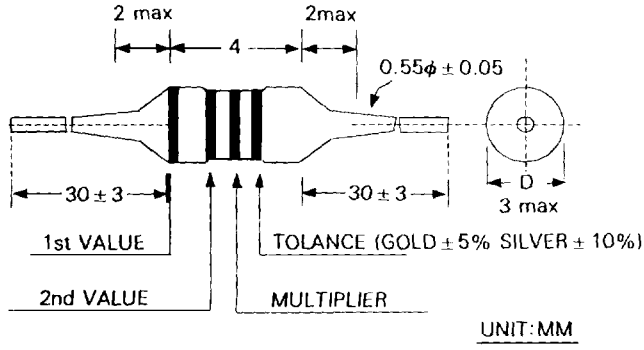
ICF-1	47μH	10
(1)	(2)	(3)

(1) Type
(2) Inductance (μH)
(3) Inductance Tolerance (±5%, ±10% or ±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_{rms}
Rated current .....Based on temperature rise
Terminal tensile strength .....1.0 kg min.
Terminal bending strength.....0.3 kg min.
Moisture resistance characteristic .....
.....Δ L/L ≤ ± 5%, Δ Q/Q ≤+ ± 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	—	—	±20
Silver	—	0.01	±10
Gold	—	0.1	±5

FOR VHF & UHF

ICF-1 TYPE

Inductance (μH)	Q Min.	Testing Frequency of L & Q (MHz)	S.R.F. (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.	Color code 1st	2nd	3rd	4th
22Nh±20%(460.5pf)	40	50MHZ	500	0.01	520	GD	BK	RD	RD
33Nh±20%(306.8pf)	40	50MHZ	490	0.02	500	GD	BK	OE	OE
39Nh±20%(259.6pf)	40	50MHZ	480	0.02	500	GD	BK	OE	WE
47Nh±20%(215pf)	40	50MHZ	480	0.03	500	GD	BK	YW	VT
56Nh±20%(180.8pf)	40	50MHZ	470	0.045	460	GD	BK	GN	BE
68Nh±20%(149pf)	40	50MHZ	470	0.05	460	GD	BK	BE	GY
82Nh±20%(123.5pf)	40	50MHZ	470	0.05	460	GD	BK	GY	RD
0.1±10%	40	25.2	470	0.08	700	Bn	Bk	S	S
0.12±10%	40	25.2	450	0.08	700	Bn	R	S	S
0.15±10%	40	25.2	430	0.09	700	Bn	Gn	S	S
0.18±10%	40	25.2	410	0.10	700	Bn	Gy	S	S
0.22±10%	40	25.2	380	0.12	700	R	R	S	S
0.27±10%	40	25.2	360	0.15	680	R	V	S	S
0.33±10%	40	25.2	350	0.16	680	O	O	S	S
0.39±10%	40	25.2	320	0.18	680	O	W	S	S
0.47±10%	40	25.2	300	0.26	650	Y	V	S	S
0.56±10%	40	25.2	280	0.38	500	Gn	Be	S	S
0.68±10%	40	25.2	250	0.42	500	Be	Gy	S	S
0.82±10%	40	25.2	200	0.55	450	Gy	R	S	S
1.0±10%	40	25.2	180	0.12	700	Bn	Bk	Gd	S
1.2±10%	40	7.96	165	0.18	700	Bn	R	Gd	S
1.5±10%	45	7.96	150	0.20	700	Bn	Gn	Gd	S
1.8±10%	50	7.96	125	0.23	655	Bn	Gy	Gd	S
2.2±10%	50	7.96	85	0.25	630	R	R	Gd	S
2.7±10%	50	7.96	80	0.28	595	R	V	Gd	S
3.3±10%	50	7.96	75	0.30	575	O	O	Gd	S
3.9±10%	45	7.96	65	0.32	555	O	W	Gd	S
4.7±10%	45	7.96	45	0.35	530	Y	V	Gd	S
5.6±10%	45	7.96	36	0.40	500	Gn	Be	Gd	S
6.8±10%	40	7.96	30	0.45	470	Be	Gy	Gd	S
8.2±10%	40	7.96	28	0.55	425	Gy	R	Gd	S
10±10%	40	7.96	22	0.72	370	Bn	Bk	Bk	S
12±10%	45	2.52	20	0.80	350	Bn	R	Bk	S
15±10%	50	2.52	16	0.88	335	Bn	Gn	Bk	S
18±10%	50	2.52	15	1.00	315	Bn	Gy	Bk	S
22±10%	50	2.52	13	1.20	285	R	R	Bk	S
27±10%	50	2.52	11	1.35	270	R	V	Bk	S
33±10%	50	2.52	10	1.50	255	O	O	Bk	S
39±10%	50	2.52	9.5	1.70	240	O	W	Bk	S
47±10%	60	2.52	8.5	2.30	205	Y	V	Bk	S
56±10%	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
68±10%	60	2.52	6.5	3.20	185	Be	Gy	Bk	S
82±10%	60	2.52	6.0	3.50	175	G	R	Bk	S
100±10%	60	2.52	5.5	3.80	165	Bn	Bk	Bn	S
120±10%	60	0.796	5.4	3.80	160	Bn	R	Bn	S
150±10%	60	0.796	4.75	4.40	150	Bn	Gn	Bn	S
180±10%	60	0.796	4.35	5.00	140	Bn	Gy	Bn	S
220±10%	60	0.796	4.0	5.70	130	R	R	Bn	S
270±10%	60	0.796	3.7	6.50	120	R	V	Bn	S
330±10%	60	0.796	3.4	9.50	100	O	O	Bn	S
390±10%	60	0.796	2.8	10.5	95	O	W	Bn	S
470±10%	60	0.796	2.40	12.5	90	Y	V	Bn	S
560±10%	60	0.796	2.20	14.5	85	Gn	Be	Bn	S
680±10%	60	0.796	2.0	18.0	75	Be	Gy	Bn	S
820±10%	60	0.796	1.6	23.7	65	Gy	R	Bn	S
1000±10%	60	0.796	1.15	30	60	Bn	Bk	R	S