

CONFORMAL COATED INDUCTORS

ICF-2

High-Performance ferrite cores with special structure are used in the ICF-2. These ultra miniature light weight conformal coated inductors have inductance value up to 220 μ h.

FEATURES

- 1) Axial lead type, small lightweight design.
- 2) Special magnetic core structure to achieve high-Q and high self-resonant frequencies.
- 3) Epoxy resin coating for humidity protection and extended life.
- 4) Heat-resistant adhesives and special structural design for effective open-circuit measurement.

ORDERING INFORMATION

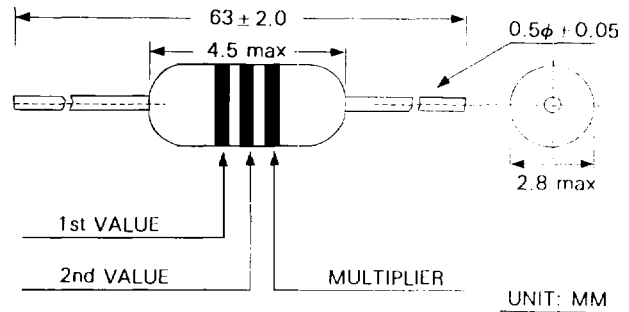
ICF-2 47 μ H 10
 (1) (2) (3)

- (1) Type
- (2) Inductance (μ 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_{rms}
 Rated currentBased on temperature rise
 Terminal tensile strength1.0 kg min.
 Terminal bending strength.....0.3 kg min.
 Moisture resistance characteristic
 $\Delta L/L \leq \pm 5\%$, $\Delta Q/Q \leq \pm 20\%$

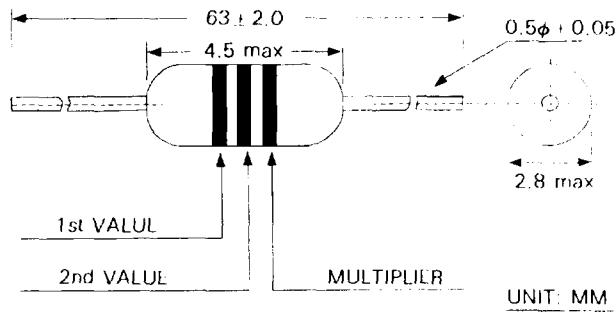
COLOR CODE



Color code	Significant figure	Multiplier
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	—	—
Silver	—	0.01
Gold	—	0.1

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ICF-2 TYPE



Inductance (μ H)	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
0.10 \pm 20%	40	25.2	250	0.12	700	Bn	Bk	S
0.12 \pm 20%	40	25.2	230	0.14	600	Bn	R	S
0.15 \pm 20%	40	25.2	210	0.16	550	Bn	Gn	S
0.18 \pm 20%	40	25.2	190	0.18	500	Bn	Gy	S
0.22 \pm 20%	40	25.2	175	0.20	450	R	R	S
0.27 \pm 20%	40	25.2	160	0.22	700	R	V	S
0.33 \pm 20%	40	25.2	150	0.24	650	O	O	S
0.39 \pm 20%	50	25.2	150	0.27	600	O	W	S
0.47 \pm 20%	50	25.2	150	0.30	540	Y	V	S
0.56 \pm 20%	50	25.2	150	0.34	475	Gn	Be	S
0.68 \pm 20%	50	25.2	120	0.38	425	Be	Gy	S
0.82 \pm 20%	40	25.2	120	0.43	400	Gy	R	S
1.0 \pm 20%	40	25.2	120	0.46	300	Bn	Bk	Gd
1.2 \pm 20%	30	7.96	100	0.52	175	Bn	R	Gd
1.5 \pm 20%	30	7.96	80	0.57	160	Bn	Gn	Gd
1.8 \pm 20%	30	7.96	66	0.60	160	Bn	Gy	Gd
2.2 \pm 20%	30	7.96	60	0.65	145	R	R	Gd
2.7 \pm 20%	30	7.96	54	0.73	145	R	V	Gd
3.3 \pm 10%	40	7.96	36	0.82	145	O	O	Gd
3.9 \pm 10%	40	7.96	32	0.90	100	O	W	Gd
4.7 \pm 10%	40	7.96	30	1.00	95	Y	V	Gd
5.6 \pm 10%	40	7.96	28	1.10	90	Gn	Be	Gd
6.8 \pm 10%	40	7.96	27	1.20	80	Be	Gy	Gd
8.2 \pm 10%	40	7.96	26	1.30	75	Gy	R	Gd
10 \pm 10%	40	7.96	24	1.40	70	Bn	Bk	Bk
12 \pm 10%	40	2.52	22	1.50	65	Bn	R	Bk
15 \pm 10%	40	2.52	19	2.30	100	Bn	Gn	Bk
18 \pm 10%	50	2.52	18	2.40	100	Bn	Gy	Bk
22 \pm 10%	50	2.52	17	2.90	80	R	R	Bk
27 \pm 10%	50	2.52	15	3.00	80	R	V	Bk
33 \pm 10%	50	2.52	14	4.80	50	O	O	Bk
39 \pm 10%	50	2.52	12	5.30	45	O	W	Bk
47 \pm 10%	50	2.52	11	5.80	60	Y	V	Bk
56 \pm 10%	50	2.52	10	7.40	47	Gn	Be	Bk
68 \pm 10%	50	2.52	9.5	8.25	42	Be	Gy	Bk
82 \pm 10%	50	2.52	9.0	9.50	36	Gy	R	Bk
100 \pm 10%	50	2.52	7.0	14.50	24	Bn	Bk	Bn
120 \pm 10%	50	0.796	6.5	16.00	35	Bn	R	Bn
150 \pm 10%	30	0.796	5.5	18.50	30	Bn	Gn	Bn
180 \pm 10%	30	0.796	5.2	20.00	28	Bn	Gy	Bn
220 \pm 10%	30	0.796	4.7	22.00	25	R	R	Bn