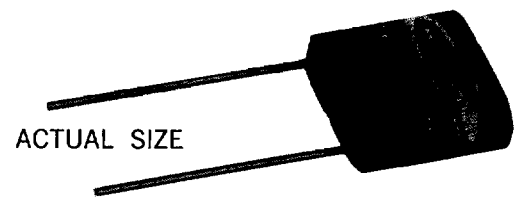


# TOROIDAL INDUCTORS

## APPLICATION FEATURES

**WIDE SELECTION** — Inductance values from 1.82 millihenries to 1.78 henries are offered in 2.5% increments with a tolerance of  $\pm 1\%$ .

**PACKAGING FOR P.C. BOARDS** — Epoxy Encapsulated unit for plug-in on Standard 0.1 inch grid spacing. "Crystal" case requires small board area.



## SPECIFICATIONS

- Select the specific value of inductance L desired from RANGE of VALUES and STANDARD INDUCTANCE VALUES tables. Specify PART NUMBER and inductance value.
- Corresponding DCR for selected value of L is:  
 $DCR = .352 \sqrt{LL_{\pm 1\%}}$  ohms  $\pm 25\%$ .
- All inductance values are at 1 KHz test voltages  $E_T$ .  
 $E_T$  (Millivolts) =  $20.8 \sqrt{L}$  (L in millihenries). This corresponds to a flux density of 40 gauss.
- Temperature coefficient of inductance is positive and less than 250 PPM/ $^{\circ}C$  average over a temperature range of  $-55^{\circ}C$  to  $+125^{\circ}C$ . Compensation for temperature may be obtained when used with polystyrene foil capacitors in resonant meshes. Temperature stabilized inductors are available on special order.
- Max. temperature rating =  $130^{\circ}C$ .
- Dielectric Withstanding Voltage = 1500V-RMS 60Hz & Insulation Resistance  $\geq 1000$  megohms at 500 VDC from coil to mounting plate.
- All electrical data at  $20 \pm 5^{\circ}C$ .

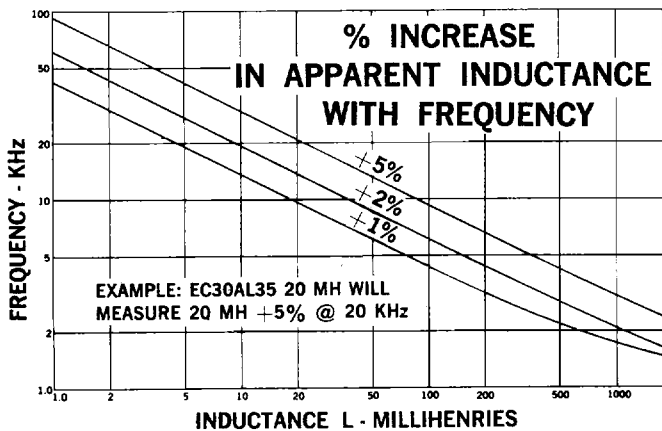
## RANGE OF VALUES

PART NUMBER	LOW		HIGH	
	$L_{\pm 1\%}$ MILLI-HENRIES	DCR $\pm 25\%$ OHMS	$L_{\pm 1\%}$ MILLI-HENRIES	DCR $\pm 25\%$ OHMS
EC30AL30	1.82	.796	2.80	.993
EC30AL31	2.87	1.26	4.42	1.57
EC30AL32	4.53	1.99	6.98	2.50
EC30AL33	7.15	3.15	11.0	3.94
EC30AL34	11.3	4.99	17.8	6.27
EC30AL35	18.2	7.96	28.0	9.93
EC30AL36	28.7	12.6	44.2	15.7
EC30AL37	45.3	19.9	69.8	20.5
EC30AL38	71.5	31.5	110	39.4
EC30AL39	113	49.9	178	62.7
EC30AL40	182	79.6	280	99.3
EC30AL41	287	126	442	157
EC30AL42	453	199	698	205
EC30AL43	715	315	1100	394
EC30AL44	1130	499	1780	627

## DECADE TABLE FOR STANDARD INDUCTANCE VALUES

1.00	1.21	1.47	1.78	2.15	2.61	3.16	3.83	4.64	5.62	6.81	8.25
1.02	1.24	1.50	1.82	2.21	2.67	3.24	3.92	4.75	5.76	6.98	8.45
1.05	1.27	1.54	1.87	2.26	2.74	3.32	4.02	4.87	5.90	7.15	8.66
1.07	1.30	1.58	1.91	2.32	2.80	3.40	4.12	4.99	6.04	7.32	8.87
1.10	1.33	1.62	1.96	2.37	2.87	3.48	4.22	5.11	6.19	7.50	9.09
1.13	1.37	1.65	2.00	2.43	2.94	3.57	4.32	5.23	6.34	7.68	9.31
1.15	1.40	1.69	2.05	2.49	3.01	3.65	4.42	5.36	6.49	7.87	9.53
1.18	1.43	1.74	2.10	2.55	3.09	3.74	4.53	5.49	6.65	8.06	9.76

Standard Inductance Values are obtained from above Decade Table as any multiple of 10. Examples: 2.15, 21.5 & 215 MH.



## MECHANICAL SPECIFICATIONS

