

Type EC36 (0.1 ~ 1000) μ H

- # Ferrite core
- # High Q
- # High S.R.F.
- # Miniature case
- # Epoxy coated

The type EC36 axial inductors are manufactured using high performance ferrite material resulting in miniature high Q components from (0.1 ~ 1000) μ H. Unique wire to ferrite terminations provide excellent mechanical strength and the product is epoxy coated for maximum protection against humidity. Available loose, taped and reeled or 'ammo' packed with standard or custom lead preforms to facilitate production assembly.

Electrical specification

Case style	EC36 miniature axial
Range	(0.1 ~ 1000) μ H
Marking	Standard four colour code
Temperature range	(-20 +100) $^{\circ}$ C, based on max. ambient temp. rating at +80 $^{\circ}$ C and max. temp. rise of +20 $^{\circ}$ C during operation
Voltage rating	250V r.m.s. max.
Current rating	Based on max. permissible temp. rise during operation
Lead tensile strength	1.0Kg min.
Lead bending strength	0.3Kg min.
Moisture resistance	μ H \pm 5% max., Q \pm 20% max., relative humidity 90% ~ 95%, +40 $^{\circ}$ C, 24 hours

Marking

Four colour bands are used to indicate value and tolerance using standard colour codes as follows:

Colour	Value	Multiplier	Tolerance
Black	0	1	
Brown	1	10	
Red	2	100	
Orange	3	1000	
Yellow	4		
Green	5		
Blue	6		
Violet	7		
Grey	8		
White	9		
Black			\pm 20%
Silver	0.01		\pm 10%
Gold	0.1		\pm 5%

Standard values

TFC Part No.	μ H \pm 10%	Q min.	Test Freq. MHz	S.R.F. min. MHz	Ω d.c. max.	I d.c. max. mA
EC36-R10K	0.1	50	25.2	470	0.04	900
EC36-R12K	0.12	50	25.2	450	0.06	900
EC36-R15K	0.15	50	25.2	430	0.07	890
EC36-R18K	0.18	50	25.2	410	0.07	890
EC36-R22K	0.22	50	25.2	380	0.08	880
EC36-R27K	0.27	50	25.2	340	0.09	800
EC36-R33K	0.33	50	25.2	300	0.10	750
EC36-R39K	0.39	50	25.2	280	0.12	680
EC36-R47K	0.47	50	25.2	250	0.16	650
EC36-R56K	0.56	50	25.2	230	0.18	600
EC36-R68K	0.68	50	25.2	210	0.22	550
EC36-R82K	0.82	50	25.2	172	0.24	980
EC36-1R0K	1.0	50	25.2	157	0.09	920
EC36-1R2K	1.2	50	7.96	144	0.10	880
EC36-1R5K	1.5	50	7.96	131	0.23	830
EC36-1R8K	1.8	55	7.96	121	0.25	790
EC36-2R2K	2.2	55	7.96	110	0.28	750
EC36-2R7K	2.7	60	7.96	100	0.30	720
EC36-3R3K	3.3	65	7.96	94	0.34	670
EC36-3R9K	3.9	65	7.96	86	0.37	640
EC36-4R7K	4.7	70	7.96	80	0.39	620
EC36-5R6K	5.6	70	7.96	74	0.43	590
EC36-6R8K	6.8	75	7.96	58	0.48	550
EC36-8R2K	8.2	80	7.96	53	0.52	530
EC36-100K	10	85	7.96	45	0.58	500
EC36-120K	12	75	2.52	30	0.63	480
EC36-150K	15	70	2.52	20	0.72	460
EC36-180K	18	65	2.52	14	0.77	430
EC36-220K	22	40	2.52	9.9	0.84	410
EC36-270K	27	55	2.52	7.6	0.94	390
EC36-330K	33	55	2.52	6.3	1.03	370
EC36-390K	39	50	2.52	6.3	1.12	350
EC36-470K	47	45	2.52	6.3	1.22	340
EC36-560K	56	40	2.52	6.2	1.34	320
EC36-680K	68	40	2.52	5.7	1.47	305
EC36-820K	82	35	2.52	5.3	1.62	290
EC36-101K	100	30	2.52	4.8	1.80	275
EC36-121K	120	70	0.796	3.8	3.70	185
EC36-151K	150	70	0.796	3.5	4.20	175
EC36-181K	180	70	0.796	3.3	4.60	165
EC36-221K	220	70	0.796	3.0	5.10	155
EC36-271K	270	65	0.796	2.8	5.80	145
EC36-331K	330	65	0.796	2.6	6.40	137
EC36-391K	390	65	0.796	2.4	7.00	133
EC36-471K	470	60	0.796	2.25	7.70	126
EC36-561K	560	60	0.796	2.10	8.50	120
EC36-681K	680	55	0.796	1.95	9.40	113
EC36-821K	820	55	0.796	1.85	12.0	100
EC36-102K	1000	50	0.252	1.4	17.4	100

Dimensions(mm) and identification

