

Type EC22 (0.1 ~ 220) μ H

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

The type EC22 axial inductors are manufactured using high performance ferrite material resulting in subminiature high Q components from (0.1 ~ 220) 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	EC22 sub-miniature axial
Range	(0.1 ~ 220) 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	Q min.	Test Freq. MHz	S.R.F. min. MHz	Ω d.c. max	I d.c. max mA
EC22-R10M	0.1	50	25.2	250	0.030	700
EC22-R12M	0.12	55	25.2	230	0.035	660
EC22-R15M	0.15	55	25.2	200	0.040	620
EC22-R18M	0.18	55	25.2	180	0.045	600
EC22-R22M	0.22	55	25.2	160	0.050	400
EC22-R27M	0.27	50	25.2	150	0.065	380
EC22-R33M	0.33	50	25.2	150	0.075	370
EC22-R39M	0.39	50	25.2	150	0.080	350
EC22-R47M	0.47	60	25.2	150	0.085	330
EC22-R56M	0.56	60	25.2	150	0.090	320
EC22-R68M	0.68	50	25.2	120	0.10	310
EC22-R82M	0.82	50	25.2	110	0.15	290
EC22-1R0M	1.0	50	25.2	110	0.22	270
EC22-1R2M	1.2	40	7.96	100	0.30	260
EC22-1R5M	1.5	40	7.96	80	0.35	250
EC22-1R8M	1.8	40	7.96	65	0.45	240
EC22-2R2M	2.2	40	7.96	55	0.55	230
EC22-2R7M	2.7	40	7.96	50	0.60	220
EC22-3R3K	3.3	40	7.96	42	0.65	210
EC22-3R9K	3.9	45	7.96	38	0.85	200
EC22-4R7K	4.7	45	7.96	34	1.00	190
EC22-5R6K	5.6	45	7.96	32	1.15	180
EC22-6R8K	6.8	40	7.96	37	1.20	175
EC22-8R2K	8.2	40	7.96	26	1.25	615
EC22-100K	10	40	7.96	24	1.5	160
EC22-120K	12	50	2.52	19	2.2	150
EC22-150K	15	50	2.52	18	2.5	145
EC22-180K	18	50	2.52	17	2.8	140
EC22-220K	22	50	2.52	16	3.0	130
EC22-270K	27	55	2.52	14	3.5	80
EC22-330K	33	55	2.52	13	3.8	76
EC22-390K	39	50	2.52	12	4.2	74
EC22-470K	47	50	2.52	11	5.8	70
EC22-560K	56	50	2.52	10	6.4	68
EC22-680K	68	50	2.52	9.5	7.2	64
EC22-820K	82	50	2.52	9.0	8.5	46
EC22-101K	100	50	2.52	7.2	11	44
EC22-121K	120	30	0.796	6.5	19	42
EC22-151K	150	30	0.796	6.0	22	39
EC22-181K	180	30	0.796	5.2	24	37
EC22-221K	220	30	0.796	4.5	28	35

Dimensions(mm) and identification

