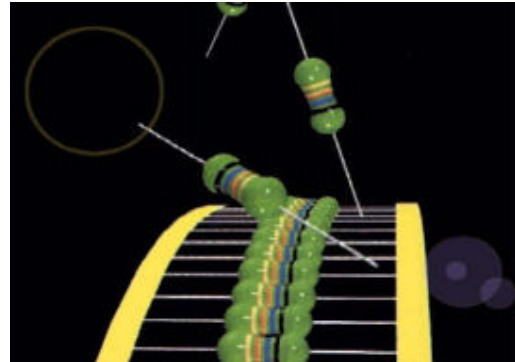


# ECM Epoxy Coated Axial Chokes

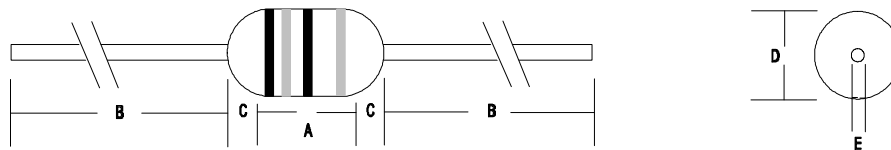
## EC22/24/36/46 Series

- 4 Component Sizes
- Pre-forming options
- Excellent Humidity Resistance
- Low Cost
- Typical Reel Size 5000pcs



This range of axial chokes from ECM offer a common and highly cost effective answer to the majority of coiled inductor requirements. Available in four sizes **EC22**, **EC24**, **EC36** and **EC46**, they are specially designed to offer high 'Q' and perfect humidity resistance, these reliable and highly durable components are suitable for a wide range of consumer electronic applications.

### COMPONENT OUTLINE



### DIMENSIONS (mm)

TYPE	a	b	c	d $\varnothing$	e $\varnothing$
EC22	2.0	28	1.5	2.8	0.50
EC24	4.0	28	2.0	3.0	0.50
EC36	6.0	28	2.0	4.0	0.65
EC46	6.0	28	2.0	5.0	0.65

**MARKING BANDS** = first significant figure, second significant figure, multiplier, tolerance (%)

	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	Silver	Gold
<b>Significant</b>	0	1	2	3	4	5	6	7	8	9	-	-
<b>Multiplier</b>	1	10	100	1000	10000	-	-	-	-	-	-	-
<b>Tolerance</b>	+/- 20%	-	-	-	-	-	-	-	-	-	+/-10%	+/- 5%

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# ECM Epoxy Coated Axial Chokes

<b>ECM Part</b>	<b>L (mH)</b>	<b>Tol %</b>	<b>Q Min. (**MHz)</b>	<b>SRF Min. (MHz)</b>	<b>R<sub>DC</sub> MAX (W)</b>	<b>I<sub>DC</sub> I<sub>N</sub> (mA)</b>
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## EC22 Series

EC22T-R10	0.10 @25.2 MHz	K,M	40	250	0.12	790
EC22T-R12	0.12 @25.2 MHz	K,M	40	230	0.14	790
EC22T-R15	0.15 @25.2 MHz	K,M	40	210	0.16	790
EC22T-R18	0.18 @25.2 MHz	K,M	40	190	0.18	745
EC22T-R22	0.22 @25.2 MHz	K,M	40	175	0.20	705
EC22T-R27	0.27 @25.2 MHz	K,M	40	160	0.22	670
EC22T-R33	0.33 @25.2 MHz	K,M	40	150	0.24	645
EC22T-R39	0.39 @25.2 MHz	K,M	50	150	0.27	605
EC22T-R47	0.47 @25.2 MHz	K,M	50	150	0.30	575
EC22T-R56	0.56 @25.2 MHz	K,M	50	150	0.34	540
EC22T-R68	0.68 @25.2 MHz	K,M	50	120	0.38	510
EC22T-R82	0.82 @25.2 MHz	K,M	40	120	0.43	480
EC22T-1R0	1.0 @25.2 MHz	J,K	40	120	0.46	465
EC22T-1R2	1.2 @7.96 MHz	J,K	30	100	0.52	435
EC22T-1R5	1.5 @7.96 MHz	J,K	30	80	0.57	415
EC22T-1R8	1.8 @7.96 MHz	J,K	30	66	0.60	405
EC22T-2R2	2.2 @7.96 MHz	J,K	30	60	0.65	390
EC22T-2R7	2.7 @7.96 MHz	J,K	30	54	0.73	370
EC22T-3R3	3.3 @7.96 MHz	J,K	40	36	0.82	345
EC22T-3R9	3.9 @7.96 MHz	J,K	40	32	0.90	330
EC22T-4R7	4.7 @7.96 MHz	J,K	40	30	1.00	315
EC22T-5R6	5.6 @7.96 MHz	J,K	40	38	1.10	300
EC22T-6R8	6.8 @7.96 MHz	J,K	40	27	1.20	285
EC22T-8R2	8.2 @7.96 MHz	J,K	40	26	1.30	275
EC22T-100	10 @7.96 MHz	J,K	40	24	1.40	265
EC22T-120	12 @2.52 MHz	J,K	40	22	1.50	255
EC22T-150	15 @2.52 MHz	J,K	40	19	2.30	245
EC22T-180	18 @2.52 MHz	J,K	50	18	2.40	225
EC22T-220	22 @2.52 MHz	J,K	50	17	2.90	210
EC22T-270	27 @2.52 MHz	J,K	50	15	3.00	200
EC22T-330	33 @2.52 MHz	J,K	50	14	4.80	160
EC22T-390	39 @2.52 MHz	J,K	50	12	5.30	150
EC22T-470	47 @2.52 MHz	J,K	50	11	5.80	145
EC22T-560	56 @2.52 MHz	J,K	50	10	7.40	140
EC22T-680	68 @2.52 MHz	J,K	50	9.5	8.25	130
EC22T-820	82 @2.52 MHz	J,K	50	9	9.50	100
EC22T-101	100 @2.52 MHz	J,K	50	7	14.50	95
EC22T-121	120 @ 0.796 MHz	J,K	50	6.5	16.00	85
EC22T-151	150 @ 0.796 MHz	J,K	30	5.5	18.50	80
EC22T-181	180 @ 0.796 MHz	J,K	30	5.2	20.00	75
EC22T-221	220 @ 0.796 MHz	J,K	30	4.7	22.00	70

**TOLERANCES J=5%; K= 10%; M=20%.**

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# ECM Epoxy Coated Axial Chokes

<b>ECM Part</b>	<b>L (mH)</b>	<b>Tol %</b>	<b>Q Min. (**MHz)</b>	<b>SRF Min. (MHz)</b>	<b>R<sub>DC</sub> MAX (W)</b>	<b>I<sub>DC</sub> I<sub>N</sub> (mA)</b>
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## EC24 Series

EC24T-R10	0.10 @25.2 MHz	K,M	40	470	0.08	700
EC24T-R12	0.12 @25.2 MHz	K,M	40	450	0.08	700
EC24T-R15	0.15 @25.2 MHz	K,M	40	430	0.09	700
EC24T-R18	0.18 @25.2 MHz	K,M	40	410	0.10	700
EC24T-R22	0.22 @25.2 MHz	K,M	40	380	0.12	700
EC24T-R27	0.27 @25.2 MHz	K,M	40	360	0.15	680
EC24T-R33	0.33 @25.2 MHz	K,M	40	350	0.16	680
EC24T-R39	0.39 @25.2 MHz	K,M	40	320	0.18	680
EC24T-R47	0.47 @25.2 MHz	K,M	40	300	0.26	650
EC24T-R56	0.56 @25.2 MHz	K,M	40	280	0.38	500
EC24T-R68	0.68 @25.2 MHz	K,M	40	250	0.42	500
EC24T-R82	0.82 @25.2 MHz	K,M	40	200	0.55	450
EC24T-1R0	1.0 @25.2 MHz	J,K	40	180	0.12	700
EC24T-1R2	1.2 @7.96 MHz	J,K	40	165	0.18	700
EC24T-1R5	1.5 @7.96 MHz	J,K	45	150	0.20	700
EC24T-1R8	1.8 @7.96 MHz	J,K	50	125	0.23	655
EC24T-2R2	2.2 @7.96 MHz	J,K	50	85	0.25	630
EC24T-2R7	2.7 @7.96 MHz	J,K	50	80	0.28	595
EC24T-3R3	3.3 @7.96 MHz	J,K	50	75	0.30	575
EC24T-3R9	3.9 @7.96 MHz	J,K	45	65	0.32	555
EC24T-4R7	4.7 @7.96 MHz	J,K	45	45	0.35	530
EC24T-5R6	5.6 @7.96 MHz	J,K	45	36	0.40	500
EC24T-6R8	6.8 @7.96 MHz	J,K	40	30	0.45	470
EC24T-8R2	8.2 @7.96 MHz	J,K	40	28	0.55	425
EC24T-100	10 @7.96 MHz	J,K	40	22	0.72	370
EC24T-120	12 @2.52 MHz	J,K	45	20	0.80	350
EC24T-150	15 @2.52 MHz	J,K	50	16	0.88	335
EC24T-180	18 @2.52 MHz	J,K	50	15	1.00	315
EC24T-220	22 @2.52 MHz	J,K	50	13	1.20	285
EC24T-270	27 @2.52 MHz	J,K	50	11	1.35	270
EC24T-330	33 @2.52 MHz	J,K	50	10	1.50	255
EC24T-390	39 @2.52 MHz	J,K	50	9.5	1.70	240
EC24T-470	47 @2.52 MHz	J,K	60	8.5	2.30	205
EC24T-560	56 @2.52 MHz	J,K	60	7.5	2.60	195
EC24T-680	68 @2.52 MHz	J,K	60	6.5	3.20	185
EC24T-820	82 @2.52 MHz	J,K	60	6.0	3.50	175
EC24T-101	100 @2.52 MHz	J,K	60	5.5	3.80	165
EC24T-121	120 @ 0.796 MHz	J,K	60	5.4	3.80	160
EC24T-151	150 @ 0.796 MHz	J,K	60	4.75	4.40	150
EC24T-181	180 @ 0.796 MHz	J,K	60	4.35	5.00	140
EC24T-221	220 @ 0.796 MHz	J,K	60	4.0	5.70	130

**TOLERANCES J=5%; K= 10%; M=20%.**

**\*\* = Test Frequency as specified in 'L' column**

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Issue 1

# ECM Epoxy Coated Axial Chokes

<b>ECM Part</b>	<b>L (mH)</b>	<b>Tol %</b>	<b>Q Min. (**MHz)</b>	<b>SRF Min. (MHz)</b>	<b>R<sub>DC</sub> MAX (W)</b>	<b>I<sub>DC</sub> I<sub>N</sub> (mA)</b>
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## EC24 Series continued...

EC24T-271	270 @ 0.796 MHz	J,K	60	3.7	6.50	120
EC24T-331	330 @ 0.796 MHz	J,K	60	3.4	9.50	100
EC24T-391	390 @ 0.796 MHz	J,K	60	2.8	10.50	95
EC24T-471	470 @ 0.796 MHz	J,K	60	2.4	12.50	90
EC24T-561	560 @ 0.796 MHz	J,K	60	2.2	14.50	85
EC24T-681	680 @ 0.796 MHz	J,K	60	2.0	18.00	75
EC24T-821	820 @ 0.796 MHz	J,K	60	1.6	23.70	65
EC24T-102	1000 @ 0.796 MHz	J,K	60	1.15	30.00	60

## EC36 Series

EC36T-R10	0.10 @25.2 MHz	J,K	50	470	0.04	900
EC36T-R12	0.12 @25.2 MHz	J,K	50	450	0.06	900
EC36T-R15	0.15 @25.2 MHz	J,K	50	430	0.07	700
EC36T-R18	0.18 @25.2 MHz	J,K	50	410	0.07	700
EC36T-R22	0.22 @25.2 MHz	J,K	50	380	0.08	700
EC36T-R27	0.27 @25.2 MHz	J,K	50	340	0.09	680
EC36T-R33	0.33 @25.2 MHz	J,K	50	300	0.10	680
EC36T-R39	0.39 @25.2 MHz	J,K	50	280	0.12	680
EC36T-R47	0.47 @25.2 MHz	J,K	50	250	0.16	650
EC36T-R56	0.56 @25.2 MHz	J,K	50	230	0.18	600
EC36T-R68	0.68 @25.2 MHz	J,K	50	210	0.22	550
EC36T-R82	0.82 @25.2 MHz	J,K	50	172	0.24	980
EC36T-1R0	1.0 @25.2 MHz	J,K	50	157	0.09	920
EC36T-1R2	1.2 @7.96 MHz	J,K	50	144	0.10	880
EC36T-1R5	1.5 @7.96 MHz	J,K	50	131	0.23	830
EC36T-1R8	1.8 @7.96 MHz	J,K	55	121	0.25	790
EC36T-2R2	2.2 @7.96 MHz	J,K	55	110	0.28	750
EC36T-2R7	2.7 @7.96 MHz	J,K	60	100	0.30	720
EC36T-3R3	3.3 @7.96 MHz	J,K	65	94	0.34	670
EC36T-3R9	3.9 @7.96 MHz	J,K	65	86	0.37	640
EC36T-4R7	4.7 @7.96 MHz	J,K	70	80	0.39	620
EC36T-5R6	5.6 @7.96 MHz	J,K	70	74	0.43	590
EC36T-6R8	6.8 @7.96 MHz	J,K	75	58	0.48	550
EC36T-8R2	8.2 @7.96 MHz	J,K	80	53	0.52	530
EC36T-100	10 @7.96 MHz	J,K	85	45	0.58	500
EC36T-120	12 @2.52 MHz	J,K	75	30	0.63	480
EC36T-150	15 @2.52 MHz	J,K	70	20	0.72	460
EC36T-180	18 @2.52 MHz	J,K	65	14	0.77	430
EC36T-220	22 @2.52 MHz	J,K	40	9.9	0.84	410
EC36T-270	27 @2.52 MHz	J,K	55	7.6	0.94	390

**TOLERANCES J=5%; K= 10%; M=20%.**

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# ECM Epoxy Coated Axial Chokes

<b>ECM Part</b>	<b>L (mH)</b>	<b>Tol %</b>	<b>Q Min. (**MHz)</b>	<b>SRF Min. (MHz)</b>	<b>R<sub>DC</sub> MAX (W)</b>	<b>I<sub>DC</sub> I<sub>N</sub> (mA)</b>
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## EC36 Series continued...

EC36T-330	33 @ 2.52 MHz	J,K	55	6.3	1.03	370
EC36T-390	39 @ 2.52 MHz	J,K	50	6.3	1.12	350
EC36T-470	47 @ 2.52 MHz	J,K	45	6.3	1.22	340
EC36T-560	56 @ 2.52 MHz	J,K	40	6.2	1.34	320
EC36T-680	68 @ 2.52 MHz	J,K	40	5.7	1.47	305
EC36T-820	82 @ 2.52 MHz	J,K	35	5.3	1.62	290
EC36T-101	100 @ 2.52 MHz	J,K	30	4.8	1.80	275
EC36T-121	120 @ 0.796 MHz	J,K	70	3.8	3.70	185
EC36T-151	150 @ 0.796 MHz	J,K	70	3.5	4.20	175
EC36T-181	180 @ 0.796 MHz	J,K	70	3.3	4.60	165
EC36T-221	220 @ 0.796 MHz	J,K	70	3.0	5.10	155
EC36T-271	270 @ 0.796 MHz	J,K	65	2.8	5.80	145
EC36T-331	330 @ 0.796 MHz	J,K	65	2.6	6.40	137
EC36T-391	390 @ 0.796 MHz	J,K	65	2.4	7.00	133
EC36T-471	470 @ 0.796 MHz	J,K	60	2.25	7.70	126
EC36T-561	560 @ 0.796 MHz	J,K	60	2.1	8.50	120
EC36T-681	680 @ 0.796 MHz	J,K	55	1.95	9.40	113
EC36T-821	820 @ 0.796 MHz	J,K	55	1.85	12.00	100
EC36T-102	1000 @ 0.796 MHz	J,K	50	1.4	17.40	100

## EC46 Series

EC46T-102	1.0 @ 252 MHz	J,K	90	-	8	233
EC46T-122	1.2 @ 252 MHz	J,K	90	-	9	215
EC46T-152	1.5 @ 252 MHz	J,K	90	-	10	200
EC46T-182	1.8 @ 252 MHz	J,K	90	-	11	188
EC46T-222	2.2 @ 252 MHz	J,K	90	-	14	176
EC46T-272	2.7 @ 252 MHz	J,K	90	-	18	170
EC46T-332	3.3 @ 252 MHz	J,K	90	-	22	162
EC46T-392	3.9 @ 252 MHz	J,K	90	-	26	156
EC46T-472	4.7 @ 252 MHz	J,K	90	-	30	147
EC46T-562	5.6 @ 252 MHz	J,K	70	-	34	140
EC46T-682	6.8 @ 252 MHz	J,K	70	-	45	140
EC46T-822	8.2 @ 252 MHz	J,K	50	-	60	137
EC46T-103	10 @ 252 MHz	J,K	50	-	70	130
EC46T-123	12 @ 79.6 MHz	J,K	50	-	82	117
EC46T-153	15 @ 79.6 MHz	J,K	50	-	89	108
EC46T-183	18 @ 79.6 MHz	J,K	40	-	140	100
EC46T-223	22 @ 79.6 MHz	J,K	40	-	170	93
EC46T-253	25 @ 79.6 MHz	J,K	40	-	185	88
EC46T-273	27 @ 79.6 MHz	J,K	40	-	210	82

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<i>ECM Part</i>	<i>L (mH)</i>	<i>Tol %</i>	<i>Q Min. (**MHz)</i>	<i>SRF Min. (MHz)</i>	<i>R<sub>DC</sub> MAX (W)</i>	<i>I<sub>DC</sub> I<sub>N</sub> (mA)</i>
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### EC46 Series continued...

EC46T-333K	33 @ 79.6 MHz	J,K	30	-	240	75
EC46T-393K	39 @ 79.6 MHz	J,K	30	-	250	60
EC46T-473K	47 @ 79.6 MHz	J,K	30	-	340	60
EC46T-563K	56 @ 79.6 MHz	J,K	30	-	390	55
EC46T-683K	68 @ 79.6 MHz	J,K	30	-	440	40
EC46T-823K	82 @ 79.6 MHz	J,K	30	-	550	30
EC46T-104K	100 @ 79.6 MHz	J,K	30	-	640	18

TOLERANCES J=5%; K= 10%; M=20%.

\*\* = Test Frequency as specified in 'L' column