



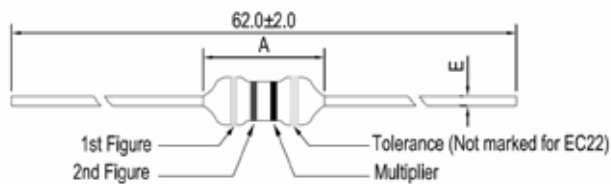
EC SERIES

EPOXY COATED.

Applications :

- Televisions, personal computers.
- Radios, telephones.
- Others various electronic products.

Shape and Dimensions (Dimensions are in mm) :



Item	A Max	D Max	E(±0.05)	Item	A Max	D Max	E(±0.05)
EC22	4.80	2.8	0.45	EC38	12.7	4.2	0.65
EC24	7.62	3.0	0.55	EC46	12.0	5.0	0.65
EC36	10.5	4.0	0.65	EC0410	15.0	5.0	0.65

Features :

- Conformal coated inductors.
- Treated with epoxy resin coating makes it high reliability.
- EC24/36/46 with special magnetic core structure, contribute to high Q and high SRF.
- EC38/0410 for power application.
- Tape and reel packaging for automatic insertion.

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 10% lower than its initial value.(Ta=20°C)
- Temperature Rise Current(Irms): The current when temperature of coil increase up to max.ΔT=20°C . (Ta=20°C).
- Operating temperature ranges: -20 to 80°C.
- Dielectric with standing voltage:250V AC r.m.s.

Product Identification :

EC 24 – 560 K – T5A

(1) (2) (3) (4) (5)

(1) Type: **Epoxy Coated**.

(2) Style: **According to core size**.

(3) Inductance: Example: **560** for **56** uH.

(4) Tolerance: “**M**”: ±20%; “**K**”: ±10%; “**J**”: ±5%.

(5) Other information:

“**T5,T2,T5A,TF1,TF2**”represents the Packing Method No code: Bulk, “**U, F**” represents the shape.

Test equipments :

- L&Q: HP 4285A with HP 42851A(Freq.>75kHz).
- L&Q: HP4284A(Freq.<75kHz).
- L&Q: HP4291B(Freq.@50MHz)
- DCR: Milli-ohm meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at 25°C.



● **EC22W series**

Part No.	L (uH)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code		
							1st	2nd	3rd
EC22W-1R0K	1.0	35	25.2	150	0.8	270	Bn	Bk	Gd
EC22W-1R2K	1.2	40	7.96	110	0.9	260	Bn	R	Gd
EC22W-1R5K	1.5	40	7.96	80	1.0	250	Bn	Gn	Gd
EC22W-1R8K	1.8	40	7.96	60	1.1	240	Bn	Gy	Gd
EC22W-2R2K	2.2	40	7.96	45	1.2	230	R	R	Gd
EC22W-2R7K	2.7	40	7.96	40	1.3	220	R	V	Gd
EC22W-3R3K	3.3	40	7.96	38	1.4	210	O	O	Gd
EC22W-3R9K	3.9	40	7.96	36	1.5	200	O	W	Gd
EC22W-4R7K	4.7	40	7.96	32	1.7	190	Y	V	Gd
EC22W-5R6K	5.6	40	7.96	30	1.9	180	Gn	Be	Gd
EC22W-6R8K	6.8	40	7.96	28	2.0	175	Be	Gy	Gd
EC22W-8R2K	8.2	40	7.96	26	2.2	165	Gy	R	Gd
EC22W-100K	10	40	7.96	24	2.5	160	Bn	Bk	Bk
EC22W-120K	12	40	2.52	22	2.5	150	Bn	R	Bk
EC22W-150K	15	40	2.52	20	2.5	145	Bn	Gn	Bk
EC22W-180K	18	40	2.52	18	3.1	140	Bn	Gy	Bk
EC22W-220K	22	40	2.52	17	3.4	130	R	R	Bk
EC22W-270K	27	40	2.52	16	4.3	80	R	V	Bk
EC22W-330K	33	40	2.52	14	4.7	76	O	O	Bk
EC22W-390K	39	40	2.52	13	5.2	74	O	W	Bk
EC22W-470K	47	40	2.52	12	5.8	70	Y	V	Bk
EC22W-560K	56	40	2.52	11	6.4	68	Gn	Be	Bk
EC22W-680K	68	40	2.52	10	7.2	64	Be	Gy	Bk
EC22W-820K	82	40	2.52	9.5	11	46	Gy	R	Bk
EC22W-101K	100	40	2.52	9.0	12	44	Bn	Bk	Bn
EC22W-121K	120	40	0.796	8.0	13	42	Bn	R	Bn
EC22W-151K	150	40	0.796	6.0	16	39	Bn	Gn	Bn
EC22W-181k	180	40	0.796	5.5	18	37	Bn	Gy	Bn
EC22W-221k	220	40	0.796	4.5	20	35	R	R	Bn
EC22W-271k	270	30	0.796	3.5	20	25	R	V	Bn
EC22W-331K	330	30	0.796	3.0	20	25	O	O	Bn



● EC24 series

Part No.	L (uH)	Q Min.	L.Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC24-1R0K	1.0	65	25.2	180	0.12	700	Bn	Bk	Gd	S
EC24-1R2K	1.2	50	7.96	165	0.18	740	Bn	R	Gd	S
EC24-1R5K	1.5	50	7.96	150	0.20	700	Bn	Gn	Gd	S
EC24-1R8K	1.8	70	7.96	125	0.23	655	Bn	Gy	Gd	S
EC24-2R2K	2.2	50	7.96	110	0.25	630	R	R	Gd	S
EC24-2R7K	2.7	60	7.96	95	0.28	595	R	V	Gd	S
EC24-3R3K	3.3	60	7.96	75	0.30	575	O	O	Gd	S
EC24-3R9K	3.9	60	7.96	65	0.32	555	O	W	Gd	S
EC24-4R7K	4.7	50	7.96	50	0.35	530	Y	V	Gd	S
EC24-5R6K	5.6	50	7.96	40	0.40	500	Gn	Be	Gd	S
EC24-6R8K	6.8	50	7.96	30	0.45	470	Be	Gy	Gd	S
EC24-8R2K	8.2	50	7.96	28	0.55	425	Gy	R	Gd	S
EC24-100K	10	50	7.96	22	0.72	370	Bn	Bk	Bk	S
EC24-120K	12	50	2.52	20	0.80	350	Bn	R	Bk	S
EC24-150K	15	50	2.52	16	0.88	335	Bn	Gn	Bk	S
EC24-180K	18	50	2.52	15	1.00	315	Bn	Gy	Bk	S
EC24-220K	22	60	2.52	13	1.20	285	R	R	Bk	S
EC24-270K	27	60	2.52	11	1.35	270	R	V	Bk	S
EC24-330K	33	50	2.52	10	1.50	255	O	O	Bk	S
EC24-390K	39	50	2.52	9.5	1.70	240	O	W	Bk	S
EC24-470K	47	60	2.52	8.5	2.30	205	Y	V	Bk	S
EC24-560K	56	60	2.52	7.5	2.60	195	Gn	Be	Bk	S
EC24-680K	68	60	2.52	6.5	2.90	185	Be	Gy	Bk	S
EC24-820K	82	55	2.52	6.0	3.20	175	Gy	R	Bk	S
EC24-101K	100	60	2.52	5.5	3.50	165	Bn	Bk	Bn	S
EC24-121K	120	75	0.796	5.4	3.80	160	Bn	R	Bn	S
EC24-151K	150	75	0.796	4.75	4.40	150	Bn	Gn	Bn	S
EC24-181K	180	75	0.796	4.35	5.00	140	Bn	Gy	Bn	S
EC24-221K	220	75	0.796	4.0	5.70	130	R	R	Bn	S
EC24-271K	270	70	0.796	3.7	6.50	120	R	V	Bn	S
EC24-331K	330	70	0.796	3.4	9.50	100	O	O	Bn	S
EC24-391K	390	70	0.796	2.8	10.5	95	O	W	Bn	S
EC24-471K	470	70	0.796	2.55	12.5	90	Y	V	Bn	S
EC24-561K	560	70	0.796	2.35	14.5	85	Gn	Be	Bn	S
EC24-681K	680	70	0.796	2.0	18.0	75	Be	Gy	Bn	S
EC24-821K	820	60	0.796	1.6	23.7	65	Gy	R	Bn	S
EC24-102K	1000	60	0.796	1.2	30.0	60	Bn	Bk	R	S



● **EC36 series**

Part No.	L (uH)	Q Min.	L / Q Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC36-1R0K	1.0	50	25.2	157	0.09	920	Bn	Bk	Gd	S
EC36-1R2K	1.2	50	7.96	144	0.10	880	Bn	R	Gd	S
EC36-1R5K	1.5	55	7.96	131	0.23	830	Bn	Gn	Gd	S
EC36-1R8K	1.8	60	7.96	121	0.25	790	Bn	Gy	Gd	S
EC36-2R2K	2.2	80	7.96	110	0.28	750	R	R	Gd	S
EC36-2R7K	2.7	85	7.96	100	0.30	720	R	V	Gd	S
EC36-3R3K	3.3	90	7.96	94	0.34	670	O	O	Gd	S
EC36-3R9K	3.9	90	7.96	86	0.37	640	O	W	Gd	S
EC36-4R7K	4.7	90	7.96	80	0.39	620	Y	V	Gd	S
EC36-5R6K	5.6	80	7.96	74	0.43	590	Gn	Be	Gd	S
EC36-6R8K	6.8	80	7.96	58	0.48	550	Be	Gy	Gd	S
EC36-8R2K	8.2	85	7.96	53	0.52	530	Gy	R	Gd	S
EC36-100K	10	85	7.96	45	0.58	500	Bn	Bk	Bk	S
EC36-120K	12	75	2.52	30	0.63	480	Bn	R	Bk	S
EC36-150K	15	75	2.52	20	0.72	460	Bn	Gn	Bk	S
EC36-180K	18	70	2.52	14	0.77	430	Bn	Gy	Bk	S
EC36-220K	22	65	2.52	9.9	0.84	410	R	R	Bk	S
EC36-270K	27	65	2.52	7.6	0.94	390	R	V	Bk	S
EC36-330K	33	55	2.52	6.3	1.03	370	O	O	Bk	S
EC36-390K	39	55	2.52	6.3	1.12	350	O	W	Bk	S
EC36-470K	47	45	2.52	6.3	1.22	340	Y	V	Bk	S
EC36-560K	56	45	2.52	6.2	1.34	320	Gn	Be	Bk	S
EC36-680K	68	40	2.52	5.7	1.47	305	Be	Gy	Bk	S
EC36-820K	82	35	2.52	5.3	1.62	290	Gy	R	Bk	S
EC36-101K	100	30	2.52	4.8	1.80	275	Bn	Bk	Bn	S
EC36-121K	120	70	0.796	3.8	3.70	185	Bn	R	Bn	S
EC36-151K	150	80	0.796	3.5	4.20	175	Bn	Gn	Bn	S
EC36-181K	180	80	0.796	3.3	4.60	165	Bn	Gy	Bn	S
EC36-221K	220	70	0.796	3.0	5.10	155	R	R	Bn	S
EC36-271K	270	70	0.796	2.8	5.80	145	R	V	Bn	S
EC36-331K	330	65	0.796	2.6	6.40	137	O	O	Bn	S
EC36-391K	390	65	0.796	2.4	7.00	133	O	W	Bn	S
EC36-471K	470	60	0.796	2.25	7.70	126	Y	V	Bn	S
EC36-561K	560	60	0.796	2.10	8.50	120	Gn	Be	Bn	S
EC36-681K	680	55	0.796	1.95	9.40	113	Be	Gy	Bn	S
EC36-821K	820	55	0.796	1.85	12.0	100	Gy	R	Bn	S
EC36-102K	1000	50	0.252	1.40	17.0	100	Bn	Bk	R	S



● **EC38 series**

Part No.	L (uH)	Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA)Max.	Color code			
							1st	2nd	3rd	4th
EC38-1R0M	1.0	7.96MH	190	0.018	3000	3300	Bn	Bk	Gd	Bk
EC38-1R2M	1.2	7.96MH	170	0.019	2700	3200	Bn	R	Gd	Bk
EC38-1R5M	1.5	7.96MH	160	0.020	2500	3100	Bn	Gn	Gd	Bk
EC38-1R8M	1.8	7.96MH	150	0.023	2100	2900	Bn	Gy	Gd	Bk
EC38-2R2M	2.2	7.96MH	130	0.031	2000	2600	R	R	Gd	Bk
EC38-2R7M	2.7	7.96MH	120	0.033	1900	2500	R	V	Gd	Bk
EC38-3R3M	3.3	7.96MH	110	0.054	1700	1900	O	O	Gd	Bk
EC38-3R9M	3.9	7.96MH	100	0.060	1500	1800	O	W	Gd	Bk
EC38-4R7K	4.7	7.96MH	86	0.068	1400	1700	Y	V	Gd	S
EC38-5R6K	5.6	7.96MH	64	0.074	1300	1600	Gn	Be	Gd	S
EC38-6R8K	6.8	7.96MH	44	0.080	1200	1600	Be	Gy	Gd	S
EC38-8R2K	8.2	7.96MH	32	0.087	1100	1500	Gy	R	Gd	S
EC38-100K	10	1kHz	25	0.095	970	1500	Bn	Bk	Bk	S
EC38-120K	12	1kHz	17	0.11	880	1400	Bn	R	Bk	S
EC38-150K	15	1kHz	13	0.15	790	1200	Bn	Gn	Bk	S
EC38-180K	18	1kHz	10	0.16	710	1100	Bn	Gy	Bk	S
EC38-220K	22	1kHz	8.40	0.19	640	1000	R	R	Bk	S
EC38-270K	27	1kHz	8.00	0.22	580	950	R	V	Bk	S
EC38-330K	33	1kHz	7.60	0.24	530	910	O	O	Bk	S
EC38-390K	39	1kHz	7.10	0.26	480	880	O	W	Bk	S
EC38-470K	47	1kHz	6.00	0.35	430	760	Y	V	Bk	S
EC38-560K	56	1kHz	5.80	0.47	400	650	Gn	Be	Bk	S
EC38-680K	68	1kHz	4.30	0.53	370	610	Be	Gy	Bk	S
EC38-820K	82	1kHz	4.10	0.60	330	580	Gy	R	Bk	S
EC38-101K	100	1kHz	3.90	0.67	300	550	Bn	Bk	Bn	S
EC38-121K	120	1kHz	3.60	0.90	270	470	Bn	R	Bn	S
EC38-151K	150	1kHz	3.20	1.20	250	410	Bn	Gn	Bn	S
EC38-181K	180	1kHz	2.80	1.40	220	380	Bn	Gy	Bn	S
EC38-221K	220	1kHz	2.30	1.90	200	320	R	R	Bn	S
EC38-271K	270	1kHz	2.10	2.10	180	310	R	V	Bn	S
EC38-331K	330	1kHz	1.90	2.40	170	290	O	O	Bn	S
EC38-391K	390	1kHz	1.70	3.00	150	260	O	W	Bn	S
EC38-471K	470	1kHz	1.40	3.40	140	240	Y	V	Bn	S
EC38-561K	560	1kHz	1.30	4.70	130	210	Gn	Be	Bn	S
EC38-681K	680	1kHz	1.20	6.40	110	180	Be	Gy	Bn	S
EC38-821K	820	1kHz	1.10	7.10	100	170	Gy	R	Bn	S
EC38-102K	1000	1kHz	1.00	7.90	95	160	Bn	Bk	R	S
EC38-122K	1200	1kHz	0.94	9.00	87	150	Bn	R	R	S
EC38-152K	1500	1kHz	0.76	12.0	78	130	Bn	Gn	R	S
EC38-182K	1800	1kHz	0.72	14.0	71	120	Bn	Gy	R	S
EC38-222K	2200	1kHz	0.64	19.0	64	100	R	R	R	S
EC38-272K	2700	1kHz	0.56	25.0	58	90	R	V	R	S
EC38-332K	3300	1kHz	0.53	29.0	52	83	O	O	R	S
EC38-392K	3900	1kHz	0.48	34.0	48	77	O	W	R	S
EC38-472K	4700	1kHz	0.45	37.0	44	74	Y	V	R	S
EC38-562K	5600	1kHz	0.40	50.0	40	63	Gn	Be	R	S
EC38-682K	6800	1kHz	0.36	58.0	36	59	Be	Gy	R	S
EC38-822K	8200	1kHz	0.29	68.0	33	54	Gy	R	R	S
EC38-103K	10000	1kHz	0.27	75.0	30	52	Bn	Bk	O	S



● **EC46 series**

Part No.	L @1kHz (mH)	Q Min.	Q Test Freq. KHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Color code			
							1st	2nd	3rd	4th
EC46-122K	1.2	80	252	1.30	9	110	Bn	R	R	S
EC46-152K	1.5	80	252	1.20	10	100	Bn	Gn	R	S
EC46-182K	1.8	80	252	1.20	11	90	Bn	Gy	R	S
EC46-222K	2.2	80	252	1.10	14	80	R	R	R	S
EC46-272K	2.7	80	252	0.85	18	75	R	V	R	S
EC46-332K	3.3	80	252	0.74	22	65	O	O	R	S
EC46-392K	3.9	80	252	0.70	26	60	O	W	R	S
EC46-472K	4.7	80	252	0.66	30	55	Y	V	R	S
EC46-562K	5.6	70	252	0.64	34	50	Gn	Be	R	S
EC46-682K	6.8	70	252	0.58	45	45	Be	Gy	R	S
EC46-822K	8.2	50	252	0.50	60	40	Gy	R	R	S
EC46-103K	10	50	79.6	0.48	70	38	Bn	Bk	O	S
EC46-123K	12	50	79.6	0.46	82	35	Bn	R	O	S
EC46-153K	15	50	79.6	0.40	89	32	Bn	Gn	O	S
EC46-183K	18	40	79.6	0.37	140	28	Bn	Gy	O	S
EC46-223K	22	40	79.6	0.33	170	25	R	R	O	S
EC46-253K	25	40	79.6	0.28	185	24	R	Gn	O	S
EC46-273K	27	40	79.6	0.26	210	23	R	V	O	S
EC46-303K	30	40	79.6	0.25	240	22	O	Bk	O	S
EC46-333K	33	40	79.6	0.24	250	20	O	O	O	S



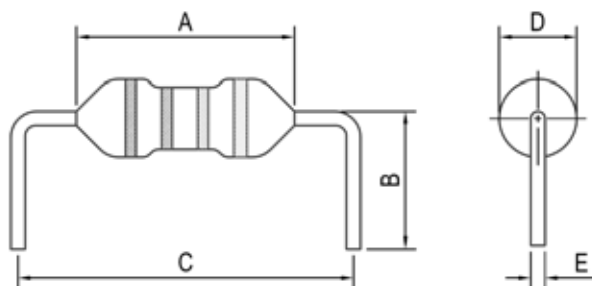
• EC0410 series

Part No.	L (uH)	Q Min.	L.Q TestFreq MHz	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (mA) Max.	Temperature Rise Current (mA) Max.	Color code			
								1st	2nd	3rd	4th
EC0410-1R0M	1.0	10	7.96	300	0.022	5600	3800	Bn	Bk	Gd	Bk
EC0410-1R2M	1.2	10	7.96	260	0.024	5500	3700	Bn	R	Gd	Bk
EC0410-1R5M	1.5	10	7.96	250	0.026	5000	3600	Bn	Gn	Gd	Bk
EC0410-1R8M	1.8	10	7.96	240	0.029	4700	3100	Bn	Gy	Gd	Bk
EC0410-2R2M	2.2	10	7.96	220	0.031	4500	2900	R	R	Gd	Bk
EC0410-2R7M	2.7	10	7.96	195	0.034	4000	2700	R	V	Gd	Bk
EC0410-3R3M	3.3	10	7.96	155	0.038	3400	2600	O	O	Gd	Bk
EC0410-3R9M	3.9	10	7.96	115	0.040	3100	2500	O	W	Gd	Bk
EC0410-4R7K	4.7	10	7.96	85	0.044	2800	2400	Y	V	Gd	S
EC0410-5R6K	5.6	10	7.96	55	0.048	2600	2100	Gn	Be	Gd	S
EC0410-6R8K	6.8	10	7.96	50	0.051	2400	2000	Be	Gy	Gd	S
EC0410-8R2K	8.2	10	7.96	38	0.056	2200	1950	Gy	R	Gd	S
EC0410-100K	10	10	7.96	24	0.062	2100	1900	Bn	Bk	Bk	S
EC0410-120K	12	10	2.52	18	0.076	1800	1800	Bn	R	Bk	S
EC0410-150K	15	10	2.52	16	0.088	1700	1700	Bn	Gn	Bk	S
EC0410-180K	18	10	2.52	15	0.11	1600	1600	Bn	Gy	Bk	S
EC0410-220K	22	10	2.52	14	0.13	1400	1550	R	R	Bk	S
EC0410-270K	27	10	2.52	13	0.14	1300	1300	R	V	Bk	S
EC0410-330K	33	10	2.52	11	0.20	1200	1200	O	O	Bk	S
EC0410-390K	39	10	2.52	10	0.22	1100	1000	O	W	Bk	S
EC0410-430K	43	10	2.52	9.5	0.28	1000	950	Y	O	Bk	S
EC0410-470K	47	10	2.52	9.5	0.28	1000	950	Y	V	Bk	S
EC0410-560K	56	10	2.52	8.0	0.30	900	900	Gn	Be	Bk	S
EC0410-680K	68	10	2.52	7.5	0.34	800	800	Be	Gy	Bk	S
EC0410-820K	82	10	2.52	7.0	0.385	700	750	Gy	R	Bk	S
EC0410-101K	100	10	2.52	6.5	0.480	700	700	Bn	Bk	Bn	S
EC0410-121K	120	15	0.796	5.0	0.595	600	600	Bn	R	Bn	S
EC0410-151K	150	15	0.796	4.5	0.90	550	500	Bn	Gn	Bn	S
EC0410-181K	180	15	0.796	4.0	1.10	500	400	Bn	Gy	Bn	S
EC0410-221K	220	15	0.796	3.8	1.25	440	390	R	R	Bn	S
EC0410-271K	270	15	0.796	3.5	1.85	420	330	R	V	Bn	S
EC0410-331K	330	15	0.796	3.0	2.10	380	310	O	O	Bn	S
EC0410-391K	390	15	0.796	2.8	2.28	340	300	O	W	Bn	S
EC0410-471K	470	15	0.796	2.5	3.22	320	280	Y	V	Bn	S
EC0410-561K	560	15	0.796	2.2	3.85	290	270	Gn	Be	Bn	S
EC0410-681K	680	15	0.796	2.1	4.0	260	240	Be	Gy	Bn	S
EC0410-821K	820	15	0.796	2.0	5.0	250	230	Gy	R	Bn	S
EC0410-102K	1000	15	0.796	1.8	5.8	240	190	Bn	Bk	R	S
EC0410-122K	1200	15	0.252	1.6	7.1	200	180	Bn	R	R	S
EC0410-152K	1500	15	0.252	1.5	7.8	190	170	Bn	Gn	R	S
EC0410-472K	4700	15	0.252	0.7	30	120	100	Y	V	R	S

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.



U Shape and Size : (unit: mm)



Product Identification :

EC36-□□□-U□X□

(1) (2) (3)

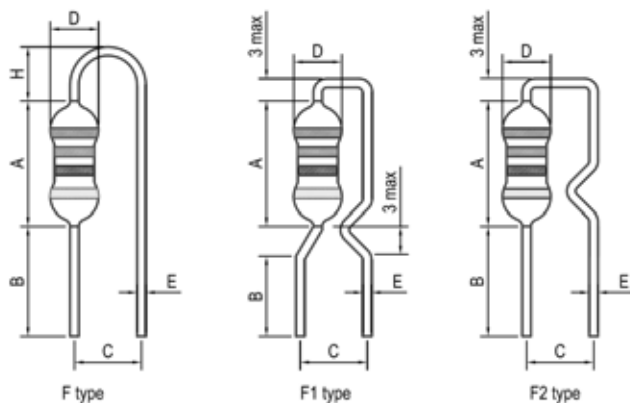
(1) Inductance and tolerance.

(2) Lead pitch (size C).

(3) Lead length (size B).

Type	A	B	C	D	E
EC22W-□□□-U□X□	4.8 Max	4.0 Min	6 ~ 15	2.8 Max	0.45
EC24-□□□-U□X□	8.0 Max	4.0 Min	10 ~ 20	3.0 Max	0.55
EC36-□□□-U□X□	11.0 Max	4.0 Min	12.5 ~ 20	4.0 Max	0.65
EC38-□□□-U□X□	12.7 Max	4.0 Min	15 ~ 20	4.2 Max	0.65
EC46-□□□-U□X□	12.0 Max	4.0 Min	12.5 ~ 20	5.0 Max	0.65
EC0410-□□□-U□X□	15.0 Max	4.0 Min	17.5 ~ 25	5.0 Max	0.65

F Shape and Size : (unit: mm)



Product Identification :

EC36 -□□□ - F□

(1) (2)

(1) Inductance and tolerance.

(2) Forming shape.

Type	A	B	C	D	E	H
EC22W-□□□-F / F1 / F2	4.8 Max	4.0 Min	5.0 Ref	2.8 Max	0.45	3.0 Max
EC24-□□□-F / F1 / F2	8.0 Max	4.0 Min	5.0 Ref	3.0 Max	0.55	3.0 Max
EC36-□□□-F / F2	11.0 Max	4.0 Min	5.0 Ref	4.0 Max	0.65	4.0 Max
EC38-□□□-F / F2	12.7 Max	4.0 Min	5.0 Ref	4.2 Max	0.65	4.0 Max
EC46-□□□-F / F2	12.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	4.0 Max
EC0410-□□□-F / F2	15.0 Max	4.0 Min	5.0 Ref	5.0 Max	0.65	5.0 Max