

Peaking Coils

Series: **Axial**
Type: **A, M, P, X**

Japan



■ Features

- Compact size, with high Q and self resonant-frequency
- Wide inductance range (0.22 μ H to 1000 μ H)

■ Recommended Applications

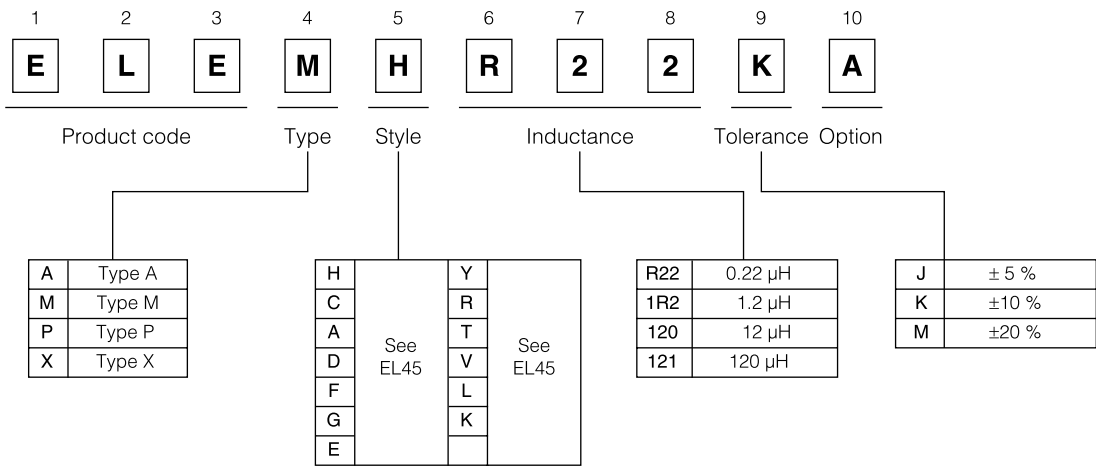
- CTV, VTR, Audio, PC, Facsimiles

■ Performance Characteristics

- Operating Temperature -20 °C to +80 °C
- Temperature Rise 20 K (20 °C) max.
- Terminal Strength 24.5 N min.



■ Explanation of Part Numbers



■ Performance Specifications, Summary

Type	Size (mm)	Features	Inductance Range (μH)
A	φ5.0×10.5 (D×L)	● Wide inductance range ● High allowable DC current ● Axial taping mount pitch : 12.5 mm min.	 0.22 ————— 1000 (μH)
M	φ3.0×7.5	● Compact size ● Axial taping mount pitch : 10.0 mm min.	 0.22 ————— 820 (μH)
P	φ4.2×6.5	● Compact size and wide inductance range ● Capable of automatic insertion at 5 mm pitch (forming into radial structure) ● Axial taping mount pitch : 7.5 mm min.	 0.22 ————— 1000 (μH)
X	φ2.3×3.4	● Small size ● Suitable for small signal processing circuits ● Axial taping mount pitch : 5.0 mm min.	 0.22 ————— 220 (μH)

■ Examples : Types A, M

Part No.	Inductance (μH)	Tolerance		Test Frequency (MHz)	Type A				Type M			
		Standard	Special		Q min.	SRF (MHz) min.	DCR** (Ω) max.	DC Current (mA)	Q min.	SRF (MHz) min.	DCR** (Ω) max.	DC Current (mA)
ELE□□R22MA	0.22	±20 %		25.2	45	300.00	0.09	1400	35	150.0	0.20	400
ELE□□R27MA	0.27				45	270.00	0.10	1320	35	150.0	0.22	380
ELE□□R33MA	0.33				45	250.00	0.11	1280	35	150.0	0.24	370
ELE□□R39MA	0.39				45	230.00	0.12	1200	35	150.0	0.26	350
ELE□□R47MA	0.47				45	220.00	0.13	1150	35	150.0	0.28	330
ELE□□R56MA	0.56				45	200.00	0.14	1100	35	150.0	0.31	320
ELE□□R68MA	0.68				45	190.00	0.15	1030	35	150.0	0.34	310
ELE□□R82□A	0.82				45	172.00	0.17	980	35	150.0	0.37	290
ELE□□IR0□A	1.00	±10 %		25.2	45	157.00	0.19	920	35	150.0	0.40	270
ELE□□IR2□A	1.20				50	144.00	0.21	880	40	144.0	0.45	260
ELE□□IR5□A	1.50				50	131.00	0.23	830	40	131.0	0.50	250
ELE□□IR8□A	1.80				55	121.00	0.25	790	40	120.0	0.55	240
ELE□□2R2□A	2.20				55	90.00	0.28	750	40	100.0	0.60	230
ELE□□2R7□A	2.70				60	80.00	0.30	720	40	90.0	0.65	220
ELE□□3R3□A	3.30			7.96	65	70.00	0.34	670	40	80.0	0.75	210
ELE□□3R9□A	3.90				65	50.00	0.37	640	40	65.0	0.80	200
ELE□□4R7□A	4.70				70	40.00	0.39	620	40	50.0	0.90	190
ELE□□5R6□A	5.60				70	33.00	0.43	590	40	30.0	0.95	180
ELE□□6R8□A	6.80				70	27.00	0.48	550	40	27.0	1.10	175
ELE□□8R2□A	8.20				65	25.00	0.52	530	40	25.0	1.20	165
ELE□□100□A	10.00				60	22.00	0.58	500	40	20.0	1.30	160
ELE□□120□A	12.00	±10 %	± 5 %	2.52	60	17.00	0.63	480	40	18.0	1.50	150
ELE□□150□A	15.00				60	11.00	0.72	460	40	16.0	1.70	145
ELE□□180□A	18.00				65	10.00	0.77	430	40	12.0	1.80	140
ELE□□220□A	22.00				65	9.00	0.84	410	40	10.0	2.00	130
ELE□□270□A	27.00				65	7.60	0.94	390	40	9.0	2.30	125
ELE□□330□A	33.00				55	6.30	1.03	370	40	8.0	2.40	120
ELE□□390□A	39.00				50	6.30	1.12	350	40	7.5	2.70	115
ELE□□470□A	47.00				45	6.30	1.22	340	40	7.0	3.00	110
ELE□□560□A	56.00				40	6.20	1.34	320	40	6.5	3.30	105
ELE□□680□A	68.00				40	5.70	1.47	305	40	6.0	3.80	100
ELE□□820□A	82.00				35	5.30	1.62	290	40	5.3	4.50	95
ELE□□101□A	100.00				30	4.80	1.80	275	40	4.8	5.00	90
ELE□□121□A	120.00			0.796	70	3.80	3.70	185	40	3.8	6.00	90
ELE□□151□A	150.00				70	3.50	4.20	175	40	3.5	7.00	85
ELE□□181□A	180.00				65	3.30	4.60	165	40	3.3	8.00	80
ELE□□221□A	220.00				70	3.00	5.10	155	40	3.0	9.00	75
ELE□□271□A	270.00				65	2.80	5.80	145	50	2.8	11.00	64
ELE□□331□A	330.00				70	2.60	6.40	137	50	2.6	13.00	60
ELE□□391□A	390.00				70	2.40	7.00	133	50	2.4	15.00	56
ELE□□471□A	470.00				60	2.25	7.70	126	50	2.1	21.00	50
ELE□□561□A	560.00				60	2.10	8.50	120	50	2.0	24.00	47
ELE□□681□A	680.00				55	1.95	9.40	113	50	1.8	27.00	43
ELE□□821□A	820.00				55	1.85	10.50	105	50	1.7	30.00	41
ELE□□102□A	1000.00				50	1.40	14.00	100				

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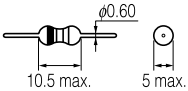
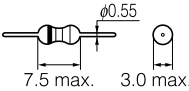
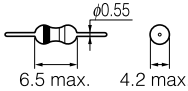
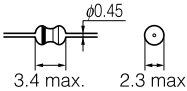
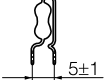
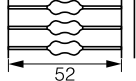
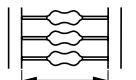
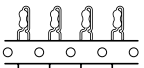
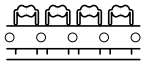
■ Examples : Types P, X

* Color Code
 Bk=Black, Bn=Brown, R=Red, O=Orange, Y=Yellow, Gn=Green, Be=Blue, V=Violet, Gy=Gray, W=White, Gd=Gold, S=Silver
 ** DC Resistance

Inductance (μH)	Type P				Type X				* Color Code (Inductance)		
	Q min.	SRF (MHz) min.	DCR** (Ω) max.	DC Current (mA)	Q min.	SRF (MHz) min.	DCR** (Ω) max.	DC Current (mA)	1st	2nd	3rd
0.22	25	150.0	0.20	400	35	150.0	0.40	400	R	R	S
0.27	25	150.0	0.22	380	35	150.0	0.43	380	R	V	S
0.33	25	150.0	0.24	370	35	150.0	0.48	370	O	O	S
0.39	25	150.0	0.26	350	35	150.0	0.51	350	O	W	S
0.47	25	150.0	0.28	330	35	150.0	0.56	330	Y	V	S
0.56	25	150.0	0.31	320	35	150.0	0.61	320	Gn	Be	S
0.68	25	120.0	0.34	310	35	150.0	0.67	310	Be	Gy	S
0.82	35	120.0	0.37	290	35	150.0	0.74	290	Gy	R	S
1.00	35	100.0	0.40	270	35	150.0	0.80	270	Bn	Bk	Gd
1.20	40	85.0	0.45	260	40	110.0	0.90	260	Bn	R	Gd
1.50	40	70.0	0.50	250	40	80.0	1.00	250	Bn	Gn	Gd
1.80	40	60.0	0.55	240	40	60.0	1.10	240	Bn	Gy	Gd
2.20	40	55.0	0.60	230	40	45.0	1.20	230	R	R	Gd
2.70	40	50.0	0.65	220	40	40.0	1.30	220	R	V	Gd
3.30	40	45.0	0.75	210	40	38.0	1.40	210	O	O	Gd
3.90	40	40.0	0.80	200	40	35.0	1.60	200	O	W	Gd
4.70	40	35.0	0.90	190	40	32.0	1.70	190	Y	V	Gd
5.60	40	33.0	0.95	180	40	30.0	1.90	180	Gn	Be	Gd
6.80	40	27.0	1.10	175	40	28.0	2.00	175	Be	Gy	Gd
8.20	40	25.0	1.20	165	40	26.0	2.20	165	Gy	R	Gd
10.00	40	23.0	1.30	160	40	24.0	2.50	160	Bn	Bk	Bk
12.00	40	20.0	1.50	150	40	22.0	2.50	150	Bn	R	Bk
15.00	40	16.0	1.70	145	40	20.0	2.80	145	Bn	Gn	Bk
18.00	40	12.0	1.80	140	40	18.0	3.10	140	Bn	Gy	Bk
22.00	40	10.0	2.00	130	40	17.0	3.40	130	R	R	Bk
27.00	40	9.0	2.30	125	40	16.0	4.30	80	R	V	Bk
33.00	40	8.0	2.40	120	40	14.0	4.70	76	O	O	Bk
39.00	40	7.5	2.70	115	40	13.0	5.20	74	O	W	Bk
47.00	40	7.0	3.00	110	40	12.0	5.80	70	Y	V	Bk
56.00	40	6.5	3.30	105	40	11.0	8.00	52	Gn	Be	Bk
68.00	40	6.0	3.80	100	40	10.0	10.00	49	Be	Gy	Bk
82.00	40	5.3	4.50	95	40	9.5	11.00	46	Gy	R	Bk
100.00	40	4.8	5.00	90	40	9.0	12.00	44	Bn	Bk	Bn
120.00	50	3.8	6.00	90	40	7.0	14.00	41	Bn	R	Bn
150.00	50	3.5	7.00	85	40	6.0	16.00	39	Bn	Gn	Bn
180.00	50	3.3	8.00	80	40	5.5	18.00	37	Bn	Gy	Bn
220.00	50	3.0	9.00	75	40	5.0	20.00	35	R	R	Bn
270.00	50	2.7	10.00	70					R	V	Bn
330.00	50	2.5	12.00	64					O	O	Bn
390.00	50	2.4	14.00	59					O	W	Bn
470.00	50	2.2	16.00	55					Y	V	Bn
560.00	50	2.1	20.00	50					Gn	Be	Bn
680.00	50	2.0	22.00	47					Be	Gy	Bn
820.00	50	1.9	25.00	44					Gy	R	Bn
1000.00	40	1.8	30.00	40					Bn	Bk	R

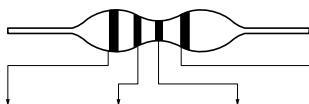
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■ Dimensions in mm (not to scale)

Type Style		Type A	Type M	Type P	Type X
					
Lead Forming	H		○	○	○
	C		○		
	A		○		
	D			○	
	F			○	
	G				○
	E			○	
	Y		○		
Taping	R		○	○	○
	T		○	○	○
	V		○		
	L			○	○
	K			○	

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■ Color Code



Color	Color Bands			
	1st figure	2nd figure	Multiplier	Tolerance
Black	0		10^0	$\pm 20\%$
Brown	1		10^1	—
Red	2		10^2	—
Orange	3		10^3	—
Yellow	4		—	—
Green	5		—	—
Blue	6		—	—
Violet	7		—	—
Gray	8		—	—
White	9		—	—
Gold	—		10^{-1}	$\pm 5\%$
Silver	—		10^{-2}	$\pm 10\%$

* The inductance tolerance indication of following type is omitted

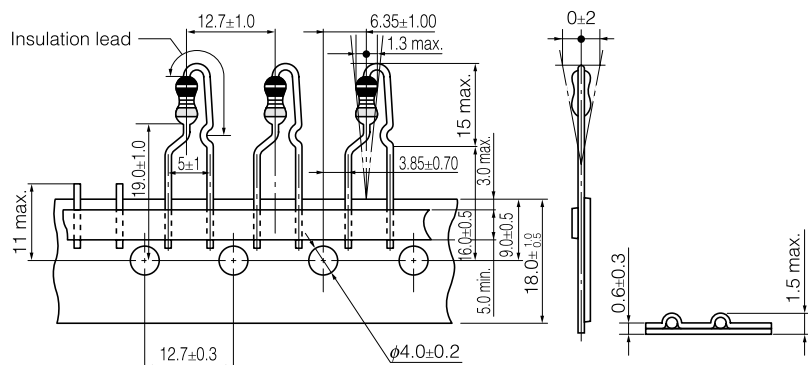


Type ELEX

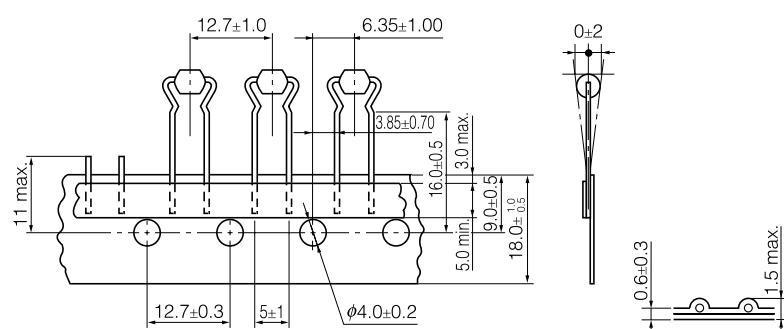
Type ELEP (Standard tolerance)

■ Tape Dimensions in mm (not to scale)

- Style V



- Style K



- Style L

