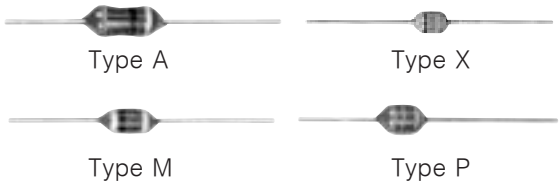
Peaking Coils

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

Japan



■ Features

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

■ 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

1	2	3	4	5	6	7	8	9	10
E	L	E	M	H	R	2	2	K	A
Product code			Type	Style	Inductance			Tolerance	Option

A	Type A
M	Type M
P	Type P
X	Type X

H	See EL28	Y	See EL28
C		R	
A		T	
D		V	
F		L	
G		K	
E			

R22	0.22 µH
1R2	1.2 µH
120	12 µH
121	120 µH

J	± 5 %
K	±10 %
M	±20 %

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■ Performance Specifications, Summary

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

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■ 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				45	300	0.09	1400	35	150	0.20	400
ELE□□R27MA	0.27				45	270	0.10	1320	35	150	0.22	380
ELE□□R33MA	0.33				45	250	0.11	1280	35	150	0.24	370
ELE□□R39MA	0.39				45	230	0.12	1200	35	150	0.26	350
ELE□□R47MA	0.47			25.2	45	220	0.13	1150	35	150	0.28	330
ELE□□R56MA	0.56				45	200	0.14	1100	35	150	0.31	320
ELE□□R68MA	0.68	±20 %			45	190	0.15	1030	35	150	0.34	310
ELE□□R82□A	0.82				45	172	0.17	980	35	150	0.37	290
ELE□□IR0□A	1.0				45	157	0.19	920	35	150	0.40	270
ELE□□IR2□A	1.2				50	144	0.21	880	40	144	0.45	260
ELE□□IR5□A	1.5		±10 %		50	131	0.23	830	40	131	0.50	250
ELE□□IR8□A	1.8				55	121	0.25	790	40	120	0.55	240
ELE□□2R2□A	2.2				55	90	0.28	750	40	100	0.60	230
ELE□□2R7□A	2.7				60	80	0.30	720	40	90	0.65	220
ELE□□3R3□A	3.3			7.96	65	70	0.34	670	40	80	0.75	210
ELE□□3R9□A	3.9				65	50	0.37	640	40	65	0.80	200
ELE□□4R7□A	4.7				70	40	0.39	620	40	50	0.90	190
ELE□□5R6□A	5.6				70	33	0.43	590	40	30	0.95	180
ELE□□6R8□A	6.8				70	27	0.48	550	40	27	1.1	175
ELE□□8R2□A	8.2				65	25	0.52	530	40	25	1.2	165
ELE□□100□A	10				60	22	0.58	500	40	20	1.3	160
ELE□□120□A	12				60	17	0.63	480	40	18	1.5	150
ELE□□150□A	15				60	11	0.72	460	40	16	1.7	145
ELE□□180□A	18				65	10	0.77	430	40	12	1.8	140
ELE□□220□A	22				65	9.0	0.84	410	40	10	2.0	130
ELE□□270□A	27				65	7.6	0.94	390	40	9.0	2.3	125
ELE□□330□A	33			2.52	55	6.3	1.03	370	40	8.0	2.4	120
ELE□□390□A	39				50	6.3	1.12	350	40	7.5	2.7	115
ELE□□470□A	47				45	6.3	1.22	340	40	7.0	3.0	110
ELE□□560□A	56	±10 %	± 5 %		40	6.2	1.34	320	40	6.5	3.3	105
ELE□□680□A	68				40	5.7	1.47	305	40	6.0	3.8	100
ELE□□820□A	82				35	5.3	1.62	290	40	5.3	4.5	95
ELE□□101□A	100				30	4.8	1.80	275	40	4.8	5.0	90
ELE□□121□A	120				70	3.8	3.70	185	40	3.8	6.0	90
ELE□□151□A	150				70	3.5	4.20	175	40	3.5	7.0	85
ELE□□181□A	180				65	3.3	4.60	165	40	3.3	8.0	80
ELE□□221□A	220				70	3.0	5.10	155	40	3.0	9.0	75
ELE□□271□A	270				65	2.80	5.80	145	50	2.8	11	64
ELE□□331□A	330			0.796	70	2.60	6.40	137	50	2.6	13	60
ELE□□391□A	390				70	2.40	7.00	133	50	2.4	15	56
ELE□□471□A	470				60	2.25	7.70	126	50	2.1	21	50
ELE□□561□A	560				60	2.10	8.50	120	50	2.0	24	47
ELE□□681□A	680				55	1.95	9.40	113	50	1.8	27	43
ELE□□821□A	820				55	1.85	10.5	105	50	1.7	30	41
ELE□□102□A	1000				50	1.40	14.0	100				

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■ Examples : Types P, X

Inductance (μH)	Type P				Type X				✻ Color Code		
	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	0.20	400	35	150	0.40	400	R	R	S
0.27	25	150	0.22	380	35	150	0.43	380	R	V	S
0.33	25	150	0.24	370	35	150	0.48	370	O	O	S
0.39	25	150	0.26	350	35	150	0.51	350	O	W	S
0.47	25	150	0.28	330	35	150	0.56	330	Y	V	S
0.56	25	150	0.31	320	35	150	0.61	320	Gn	Be	S
0.68	25	120	0.34	310	35	150	0.67	310	Be	Gy	S
0.82	35	120	0.37	290	35	150	0.74	290	Gy	R	S
1.0	35	100	0.40	270	35	150	0.80	270	Bn	Bk	Gd
1.2	40	85	0.45	260	40	110	0.90	260	Bn	R	Gd
1.5	40	70	0.50	250	40	80	1.0	250	Bn	Gn	Gd
1.8	40	60	0.55	240	40	60	1.1	240	Bn	Gy	Gd
2.2	40	55	0.60	230	40	45	1.2	230	R	R	Gd
2.7	40	50	0.65	220	40	40	1.3	220	R	V	Gd
3.3	40	45	0.75	210	40	38	1.4	210	O	O	Gd
3.9	40	40	0.80	200	40	35	1.6	200	O	W	Gd
4.7	40	35	0.90	190	40	32	1.7	190	Y	V	Gd
5.6	40	33	0.95	180	40	30	1.9	180	Gn	Be	Gd
6.8	40	27	1.1	175	40	28	2.0	175	Be	Gy	Gd
8.2	40	25	1.2	165	40	26	2.2	165	Gy	R	Gd
10	40	23	1.3	160	40	24	2.5	160	Bn	Bk	Bk
12	40	20	1.5	150	40	22	2.5	150	Bn	R	Bk
15	40	16	1.7	145	40	20	2.8	145	Bn	Gn	Bk
18	40	12	1.8	140	40	18	3.1	140	Bn	Gy	Bk
22	40	10	2.0	130	40	17	3.4	130	R	R	Bk
27	40	9.0	2.3	125	40	16	4.3	80	R	V	Bk
33	40	8.0	2.4	120	40	14	4.7	76	O	O	Bk
39	40	7.5	2.7	115	40	13	5.2	74	O	W	Bk
47	40	7.0	3.0	110	40	12	5.8	70	Y	V	Bk
56	40	6.5	3.3	105	40	11	8.0	52	Gn	Be	Bk
68	40	6.0	3.8	100	40	10	10	49	Be	Gy	Bk
82	40	5.3	4.5	95	40	9.5	11	46	Gy	R	Bk
100	40	4.8	5.0	90	40	9.0	12	44	Bn	Bk	Bn
120	50	3.8	6.0	90	40	7.0	14	41	Bn	R	Bn
150	50	3.5	7.0	85	40	6.0	16	39	Bn	Gn	Bn
180	50	3.3	8.0	80	40	5.5	18	37	Bn	Gy	Bn
220	50	3.0	9.0	75	40	5.0	20	35	R	R	Bn
270	50	2.7	10	70					R	V	Bn
330	50	2.5	12	64					O	O	Bn
390	50	2.4	14	59					O	W	Bn
470	50	2.2	16	55					Y	V	Bn
560	50	2.1	20	50					Gn	Be	Bn
680	50	2.0	22	47					Be	Gy	Bn
820	50	1.9	25	44					Gy	R	Bn
1000	40	1.8	30	40					Bn	Bk	R

✻ 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

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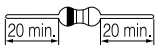
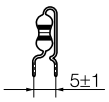
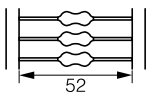
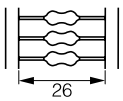
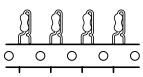
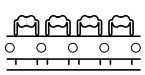
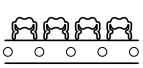
■ Dimensions in mm (not to scale)

Style \ Type			Type A	Type M	Type P	Type X
			ø0.60 10.5 max. 5 max.	ø0.55 7.5 max. 3.0 max.	ø0.55 6.5 max. 4.2 max.	ø0.45 3.4 max. 2.3 max.
Lead Forming	H		Yes	Yes	Yes	Yes
	C		Yes			
	A		Yes			
	D			Yes		
	F			Yes	Yes	
	G					Yes
	E				Yes	
	Y		Yes			
Taping	R		Yes	Yes	Yes	Yes
	T		Yes	Yes	Yes	Yes
	V		Yes			
	L				Yes	Yes
	K				Yes	

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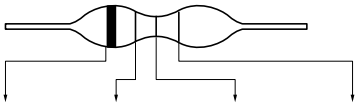
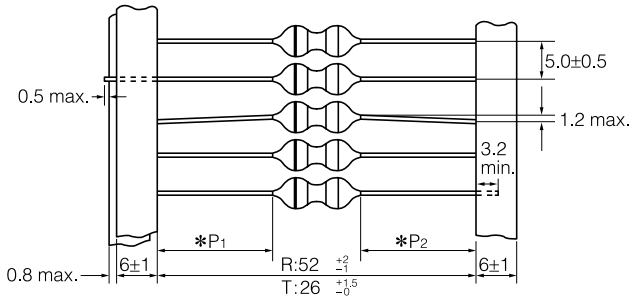
■ Color Code



Color	Color Bands			
	1st figure 2nd figure	Multiplier	Tolerance
Black	0	10^0	±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}	± 5 %
Silver	—	10^{-2}	±10 %

■ Tape Dimensions in mm (not to scale)

● Style R & T

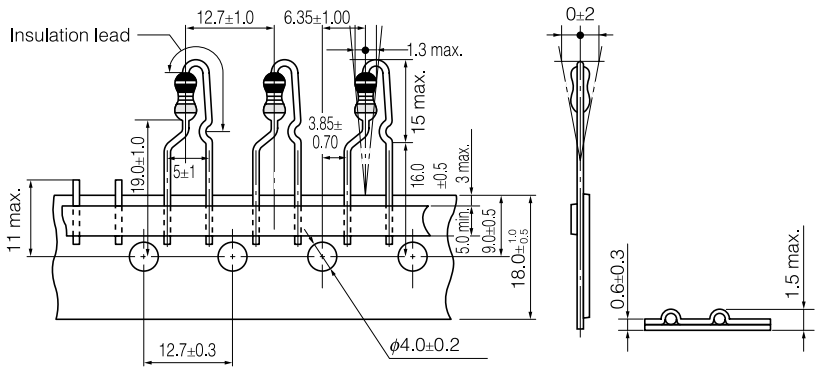


* $|P_1 - P_2| \leq 1.0$

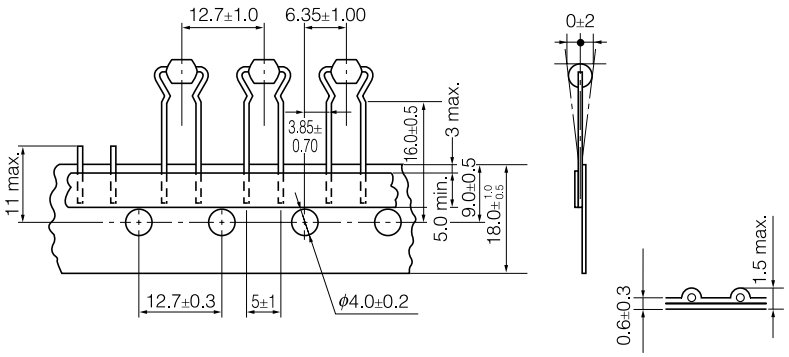
Note : Axial Taping Mount Pitch
A..... 12.5 min.
M..... 10.0 min.
P..... 7.5 min.
X..... 5.0 min.

■ Tape Dimensions in mm (not to scale)

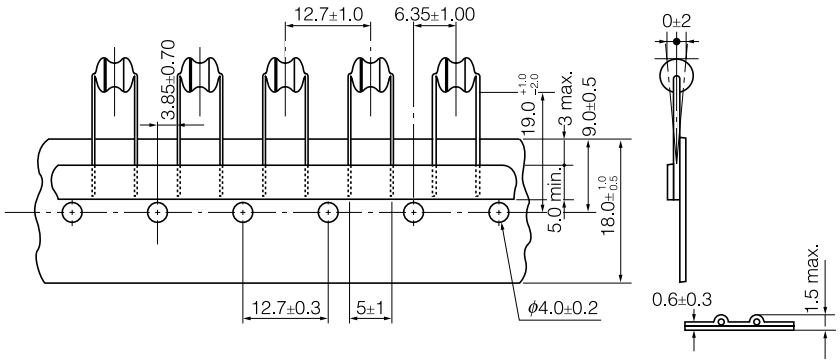
● Style V



● Style K



● Style L



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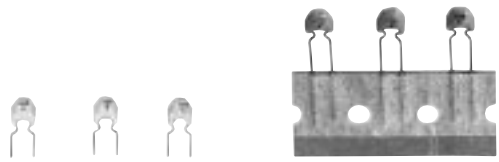
Peaking Coils

Series: **Radial**
Type: **S, L, K**

Japan

Type S



Taped

Type L Type K

■ Features

- Compact size, with high Q and self-resonant frequency
- Wide inductance range: 0.22 µH to 22 mH

■ 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 .....4.9 N min.

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10
E	L	E	S	E	R	2	2	M	A
Product code			Type	Style	Inductance			Tolerance	Option

S	Type S
L	Type L
K	Type K

E N

5 5

Bulk Taping

R22	0.22 µH
1R2	1.2 µH
120	12 µH
121	120 µH

J	± 5 %
K	±10 %
M	±20 %

■ Marking

	Value	Marking
Inductance	0.22 µH	R22
	1.2 µH	1R2
	12 µH	120
	120 µH	121
Inductance Tolerance	± 5 %	J
	±10 %	K
	±20 %	M

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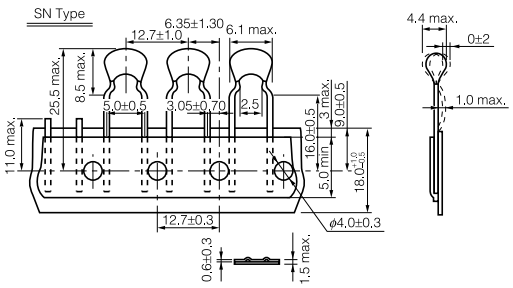
■ Examples : Type S

Type S								
Part No.	Induct-ance (μH)	Inductance Tolerance		Q min.	Test Fre-quency	SRF (MHz) min.	DCR* (Ω) max.	DC Current (mA)
		Standard	Special					
ELES□R22MA	0.22	±20 %		35	25.2 MHz	150	0.15	800
ELES□R27MA	0.27			35		150	0.16	800
ELES□R33MA	0.33			35		150	0.17	800
ELES□R39MA	0.39			35		130	0.19	800
ELES□R47MA	0.47			35		130	0.20	800
ELES□R56MA	0.56			35		130	0.22	700
ELES□R68MA	0.68			35		120	0.24	700
ELES□R82MA	0.82			35		120	0.26	700
ELES□1R0□A	1.0		±10 %	35		85	0.29	674
ELES□1R2□A	1.2			50		75	0.32	645
ELES□1R5□A	1.5			50		65	0.34	608
ELES□1R8□A	1.8			50		55	0.37	577
ELES□2R2□A	2.2			50		50	0.40	550
ELES□2R7□A	2.7			50		45	0.44	520
ELES□3R3□A	3.3	±10 %	± 5 %	50	7.96 MHz	40	0.49	488
ELES□3R9□A	3.9			50		35	0.53	466
ELES□4R7□A	4.7			50		30	0.58	434
ELES□5R6□A	5.6			50		27	0.64	422
ELES□6R8□A	6.8			50		25	0.70	398
ELES□8R2□A	8.2			50		22	0.77	378
ELES□100□A	10			50		20	0.84	353
ELES□120□A	12			50	2.52 MHz	18	1.03	339
ELES□150□A	15			50		15	1.15	316
ELES□180□A	18			50		12	1.26	301
ELES□220□A	22			50		11	1.40	272
ELES□270□A	27			50		10	1.58	254
ELES□330□A	33			40		9.5	1.79	239
ELES□390□A	39			40		9.0	1.99	223
ELES□470□A	47			40		8.5	2.25	213
ELES□560□A	56			40		8.0	2.52	204
ELES□680□A	68			40		7.5	2.87	174
ELES□820□A	82			40		7.0	3.23	164
ELES□101□A	100			40		6.5	3.64	150
ELES□121□A	120			50	796 kHz	6.2	4.3	140
ELES□151□A	150			50		5.7	5.0	130
ELES□181□A	180			50		5.3	5.7	120
ELES□221□A	220			50		4.0	6.5	112
ELES□271□A	270			50		3.6	8.0	90
ELES□331□A	330			50		3.3	11.0	87
ELES□391□A	390			50		3.0	12.0	80
ELES□471□A	470			50		2.8	14.0	76
ELES□561□A	560			50		2.4	20.0	69
ELES□681□A	680			50		2.2	22.5	65
ELES□821□A	820			50		2.0	25.5	61
ELES□102□A	1000			50		1.8	29.5	56

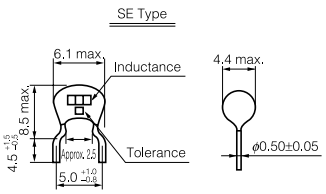
■ Dimensions in mm (not to scale)

Type S

Style N (Taping)



Style E (Bulk)



*DC Resistance

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■ Examples : Type L, K

Part No.	Type L								Type K						
	Inductance (μH)	Inductance Tolerance		Q min.	Test Frequency	SRF (MHz) min.	DCR* (Ω) max.	DC Current (mA)	Inductance Tolerance		Q min.	Test Frequency	SRF (MHz) min.	DCR* (Ω) max.	DC Current (mA)
		Standard	Special						Standard	Special					
ELE□□1R0□A	1.0	±20 %	±10 %		7.96 MHz	68	0.05	1600							
ELE□□1R5□A	1.5					60	0.06	1500							
ELE□□2R2□A	2.2					52	0.07	1400							
ELE□□3R3□A	3.3					45	0.08	1300	±20 %	±10 %	—	10 kHz	37	0.048	2400
ELE□□4R7□A	4.7					32	0.10	1200			—		27	0.048	2200
ELE□□6R8□A	6.8					25	0.12	1100			—		22	0.048	2000
ELE□□100□A	10	±10 %	±5 %	20	2.52 MHz	19	0.14	1000			13		15.6	0.048	1740
ELE□□120□A	12			20		17	0.15	920			14		14.2	0.052	1670
ELE□□150□A	15			20		16	0.17	850	±10 %	±5 %	15		12.7	0.059	1590
ELE□□180□A	18			15		14	0.20	770			16		11.6	0.066	1520
ELE□□220□A	22			15		13	0.22	730			17		10.4	0.074	1440
ELE□□270□A	27			15		12	0.25	650			18		9.40	0.083	1360
ELE□□330□A	33			15		10	0.30	600			19		8.20	0.094	1290
ELE□□390□A	39			15		9.2	0.35	550			19		7.40	0.105	1220
ELE□□470□A	47			15		8.5	0.40	500			20		6.60	0.118	1120
ELE□□560□A	56			15		7.7	0.57	460			20		5.90	0.133	1020
ELE□□680□A	68			15		7.0	0.65	420			21		5.30	0.177	920
ELE□□820□A	82			15		6.4	0.74	380			20		4.30	0.204	850
ELE□□101□A	100			25	0.796 MHz	5.5	0.90	350			20		4.00	0.236	790
ELE□□121□A	120			25		5.3	1.0	320			21		3.80	0.267	730
ELE□□151□A	150			25		4.7	1.5	300			19		2.95	0.370	630
ELE□□181□A	180			30		4.3	1.8	270			20		2.72	0.430	580
ELE□□221□A	220			30		4.0	2.0	250			21		2.49	0.500	530
ELE□□271□A	270			30		3.3	2.6	220			21		2.27	0.580	490
ELE□□331□A	330			35		3.0	3.3	195			18		1.92	0.830	420
ELE□□391□A	390			35		2.8	3.8	180			19		1.77	0.960	398
ELE□□471□A	470			35		2.3	5.0	160			19		1.60	1.10	368
ELE□□561□A	560			40		2.2	6.0	150			20		1.46	1.26	339
ELE□□681□A	680			40		2.0	7.0	140			16		1.26	2.03	288
ELE□□821□A	820			40		1.9	8.0	125			17		1.17	2.28	268
ELE□□102□A	1000			45	0.252 MHz	1.7	10	115			17		1.08	2.61	248
ELE□□122□A	1200			45		1.6	12	100			18		1.01	2.98	229
ELE□□152□A	1500			45		1.4	15	90			19		0.930	3.50	208
ELE□□182□A	1800			45		1.3	20	80			19		0.860	4.10	192
ELE□□222□A	2200			45		1.2	23	74			17		0.700	5.80	164
ELE□□272□A	2700			40		1.1	30	65			18		0.620	6.80	147
ELE□□332□A	3300			40		1.0	37	60			19		0.550	7.80	130
ELE□□392□A	3900			40		0.90	42	55			20		0.500	8.70	119
ELE□□472□A	4700			40		0.85	50	50			18		0.430	12.4	109
ELE□□562□A	5600			40		0.78	60	45			18		0.390	14.1	103
ELE□□682□A	6800			40		0.70	80	40			19		0.350	16.3	96
ELE□□822□A	8200			40		0.60	95	37			20		0.310	18.7	90
ELE□□103□A	10000			25	0.0796 MHz	0.57	110	34			17		0.291	28.8	73
ELE□□123□A	12000			25		0.55	130	30			18		0.260	32.0	68
ELE□□153□A	15000			25		0.51	170	27			19		0.227	38.0	62
ELE□□183□A	18000										20		0.203	44.0	57
ELE□□223□A	22000										21		0.179	51.0	51

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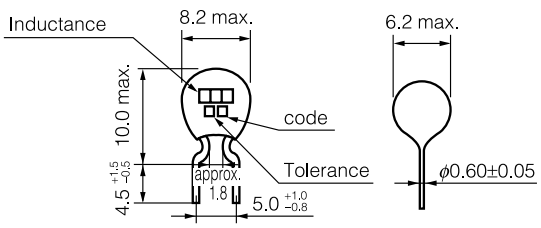
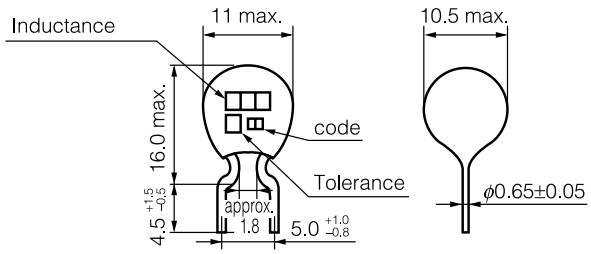
■ Dimensions in mm (not to scale)

● Style E (Bulk)

Type L

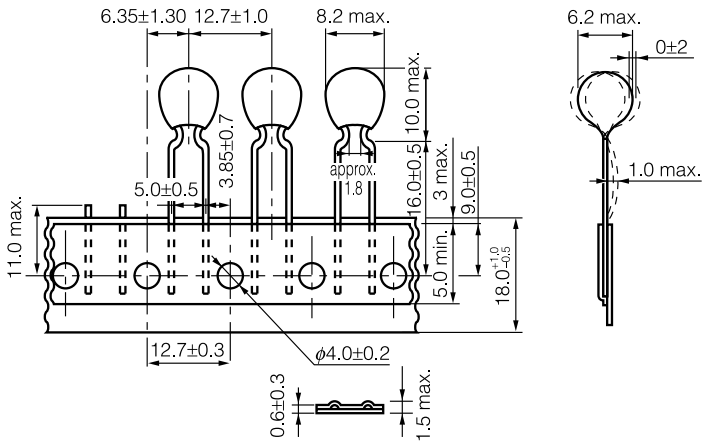


Type K

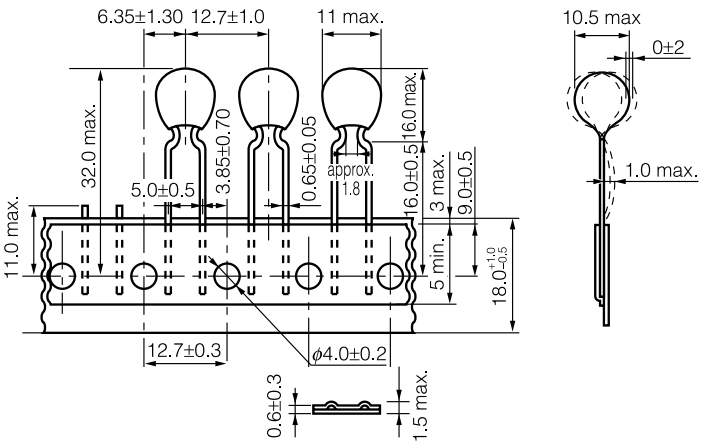


● Style N (Taping)

Type L



Type K



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