

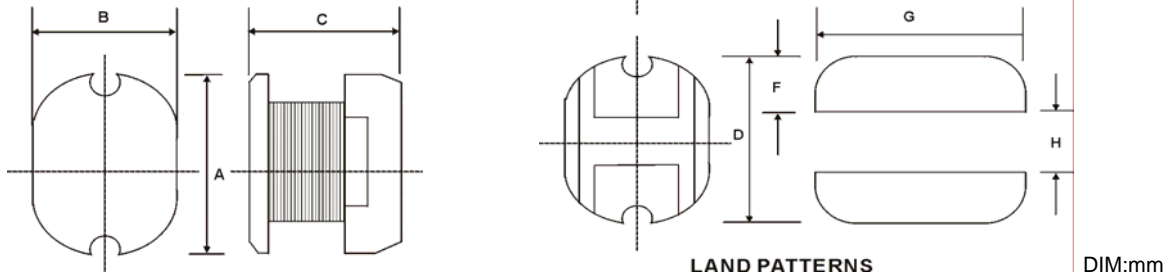
## POA SERIES

## Features



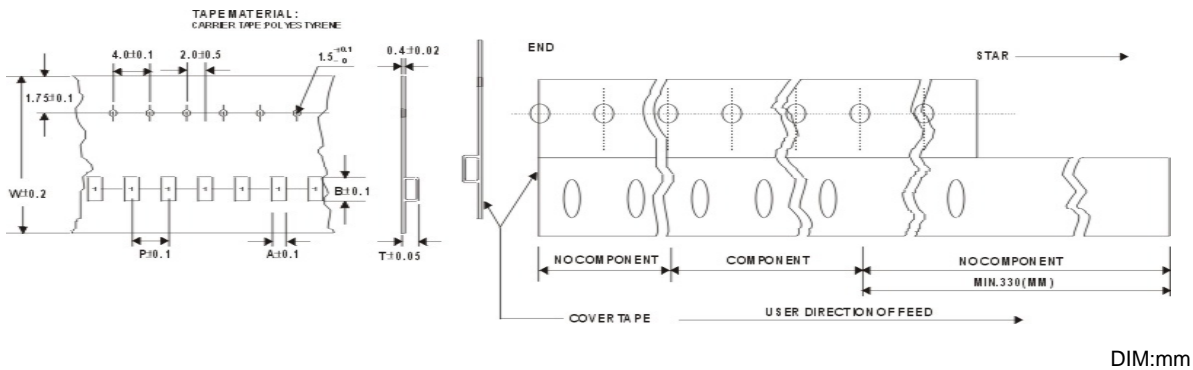
- Surface mounting type.
- High mounting stability.
- Comparatively large rated current and high inductance.
- Use high performance ferrite core.

## Dimensions



Type	A	B	C	D	E	F	G
POA 43	4.5±0.3	4.0±0.3	3.2±0.3	5.0	1.5	1.75	4.5
POA 53	5.8±0.3	5.2±0.3	3.2MAX	6.0	1.7	2.15	5.5
POA 54	5.8±0.3	5.2±0.3	4.5±0.35	6.0	1.7	2.15	5.5
POA 73	7.8±0.3	7.0±0.3	3.5±0.5	8.0	2.0	3.0	7.5
POA 75	7.8±0.3	7.0±0.3	5.0±0.5	8.0	2.0	3.0	7.5
POA103	10±0.4	9.0±0.4	3.2MAX	10.0	2.5	3.75	9.5
POA104	10±0.4	9.0±0.4	4.0±0.5	10.0	2.5	3.75	9.5
POA105	10±0.4	9.0±0.4	5.4±0.4	10.0	2.5	3.75	9.5
POA106	10±0.4	9.0±0.4	7MAX	10.0	2.5	3.75	9.5

## Packaging



Type	A	B	W	P	T	Chips/Reel
POA43	4.3	4.6	16	8	3.5	1500
POA53	5.4	6.0	16	8	3.5	1500
POA54	5.4	6.0	16	8	4.8	1500
POA73	7.3	8.1	16	12	3.9	1000
POA75	7.3	8.1	16	12	5.4	500
POA103	9.5	10.4	24	16	3.6	1000
POA104	9.5	10.4	24	16	4.4	500
POA105	9.5	10.4	24	16	5.8	500
POA106	9.5	10.4	24	16	7.0	500

## POA SERIES

Part Number	L (uH)	Test Freq. (KHz)	RDC(ohm MAX)					IDC(A MAX)				
			POA43	POA53	POA54	POA73	POA75	POA43	POA53	POA54	POA73	POA75
1R0	1.0	100	0.049					2.56				
1R4	1.4	100	0.057					2.52				
1R8	1.8	100	0.064					1.95				
2R2	2.2	100	0.072	0.066				1.75	2.03			
2R7	2.7	100	0.079					1.58				
3R3	3.3	100	0.087	0.088				1.44	1.88			
3R9	3.9	100	0.094					1.33				
4R7	4.7	100	0.109	0.96				1.15	1.68			
5R6	5.6	100	0.126					0.99				
6R8	6.8	100	0.132					0.95				
8R2	8.2	100	0.147					0.84				
100	10	100	0.182	0.16	0.10	0.08	0.07	1.04	1.23	1.44	1.44	2.30
120	12	100	0.210	0.18	0.12	0.09	0.08	0.97	1.12	1.40	1.39	2.00
150	15	100	0.235	0.25	0.14	0.10	0.09	0.85	1.00	1.30	1.24	1.80
180	18	100	0.338	0.28	0.15	0.11	0.10	0.74	0.88	1.23	1.12	1.60
220	22	100	0.378	0.39	0.18	0.13	0.11	0.68	0.80	1.11	1.07	1.50
270	27	100	0.522	0.42	0.20	0.15	0.12	0.62	0.72	0.97	0.94	1.30
330	33	100	0.540	0.49	0.23	0.17	0.13	0.56	0.67	0.88	0.85	1.20
390	39	100	0.587	0.55	0.32	0.22	0.16	0.52	0.64	0.80	0.74	1.10
470	47	100	0.844	0.77	0.37	0.25	0.18	0.44	0.53	0.72	0.68	1.10
560	56	100	0.937	0.87	0.42	0.28	0.24	0.42	0.50	0.68	0.64	0.94
680	68	100	1.117	1.21	0.46	0.33	0.28	0.37	0.45	0.61	0.59	0.85
820	82	100		1.34	0.60	0.41	0.37		0.39	0.58	0.54	0.78
101	100	100		1.57	0.70	0.48	0.43		0.37	0.52	0.51	0.72
121	120	1		1.80	0.93	0.54	0.47		0.34	0.48	0.49	0.66
151	150	1		2.40	1.10	0.75	0.64		0.31	0.40	0.40	0.58
181	180	1		2.66	1.38	1.02	0.71		0.30	0.38	0.36	0.51
221	220	1		3.73	1.57	1.20	0.96		0.26	0.35	0.31	0.49
271	270	1				1.31	1.11				0.29	0.42
331	330	1				1.50	1.26				0.28	0.40
391	390	1					1.77					0.36
471	470	1					1.96					0.34

Tolerance of inductance:

POA 43 :10~27uH±20%(M), 33uH~68uH±10%(K).

POA 53 :2.2~4.7uH±20%(M), 10uH~12uH±15%(L), 15~220uH±10%(K).

POA 54 :10~27uH±20%(M), 33uH~82uH±15%(L),56~220uH±10%(K).

POA 73 :10~47uH±20%(M), 56uH~330uH±10%(K).

POA 75 :10~470uH±10%(K).

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Part Number	L (uH)	Test Freq. (KHz)	RDC(ohm MAX)				IDC(A MAX)			
			POA103	POA104	POA105	POA106	POA103	POA104	POA105	POA106
100	10	100	0.047	0.05	0.06	0.06	2.00	2.38	2.60	3.50
120	12	100	0.056	0.06	0.07	0.07	1.80	2.13	2.45	3.40
150	15	100	0.072	0.07	0.08	0.08	1.55	1.87	2.27	3.10
180	18	100	0.078	0.08	0.09	0.09	1.45	1.73	2.15	3.00
220	22	100	0.098	0.09	0.10	0.10	1.25	1.60	1.95	2.60
270	27	100	0.110	0.10	0.11	0.11	1.16	1.44	1.76	2.40
330	33	100	0.150	0.12	0.12	0.12	1.05	1.26	1.50	2.30
390	39	100	0.170	0.15	0.14	0.14	0.97	1.20	1.37	2.10
470	47	100	0.220	0.17	0.17	0.17	0.91	1.10	1.28	1.95
560	56	100	0.240	0.20	0.19	0.19	0.80	1.01	1.17	1.85
680	68	100	0.280	0.22	0.22	0.22	0.76	0.91	1.11	1.65
820	82	100	0.380	0.25	0.25	0.25	0.66	0.85	1.00	1.50
101	100	1	0.430	0.34	0.35	0.35	0.61	0.74	0.97	1.40
121	120	1	0.490	0.40	0.40	0.40	0.56	0.69	0.89	1.30
151	150	1	0.610	0.54	0.47	0.47	0.49	0.61	0.78	1.20
181	180	1	0.750	0.62	0.63	0.63	0.45	0.56	0.72	1.00
221	220	1	0.900	0.72	0.73	0.73	0.43	0.53	0.66	0.95
271	270	1	1.130	0.95	0.97	0.97	0.37	0.45	0.57	0.90
331	330	1	1.280	1.10	1.15	1.15	0.34	0.42	0.52	0.80
391	390	1	1.600	1.24	1.30	1.30	0.31	0.38	0.48	0.75
471	470	1	1.880	1.53	1.48	1.48	0.29	0.35	0.42	0.65
561	560	1		1.90	1.90	1.90		0.32	0.33	0.60
681	680	1			2.25	2.45			0.28	0.50
821	820	1			2.55	2.55			0.24	0.48
102	1000	1				3.00				0.46
122	1200	1				3.50				0.35

1.Tolerance of inductance:

POA103 :10~470uH±20%(M).

POA104 :10~39uH±20%(M), 47uH~560uH±10%(K).

POA105 :10~39uH±20%(M), 47uH~820uH±10%(K).

POA106 :10~82uH±20%(M), 47uH~1200uH±10%(K).

2.The operating temperature range is -25 to +85 .

3.IDC:The current of inductance drop 10%.