

Signal Inductor Air Wound Coil Type

SIA-05P, 06P Series

MERITEK

PART NUMBERING SYSTEM

SIA 22N0 K 293 05P
(1) (2) (3) (4) (5)

No	item	Digit	Description	Series Reference
(1)	Meritek Series	SIA	Signal Inductor	Air Wound Coil type
(2)	Inductance or Turns	22N0	22N0: 22.0nH	15N7:15.7nH, 150N: 150nH N denoted to decimal,
(3)	Tolerance	K	±10%	J: ±5%, M: ±20%, N:±30%, G: ±2%
(4)	Size Code	293	3.81x4.20mm	Dimension information or Size Code
(5)	Package Code	05P	Package Information	Package or customer Project reference

PACKAGE CODE REFERENCE TABLE

<u>Series</u>	<u>Size</u>	<u>Picture</u>	<u>Inductance</u>	<u>Rated Current</u>
SIA-29305P	4.83x3.81x4.20mm		22nH~120nH	3.5A~1.5A
SIA-29406P	7.98x6.35x5.90mm		90nH~538nH	3.5A~2.0A

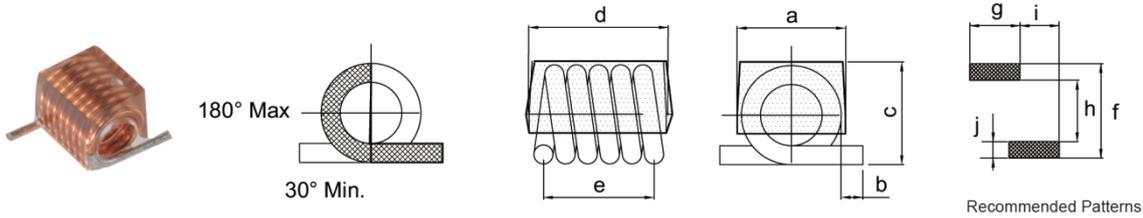
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SIA-29305P PACKAGE

DIMENSION



Unit: mm

Package	a	b	c	d	e	f	g	h	i	j
29305P	3.81(Max.)	1.53±0.39	4.2 (Max)	4.83 (Max)	4.32±0.39	5.80	5.16	2.85	2.62	1.48

ELECTRICAL CHARACTERISTIC

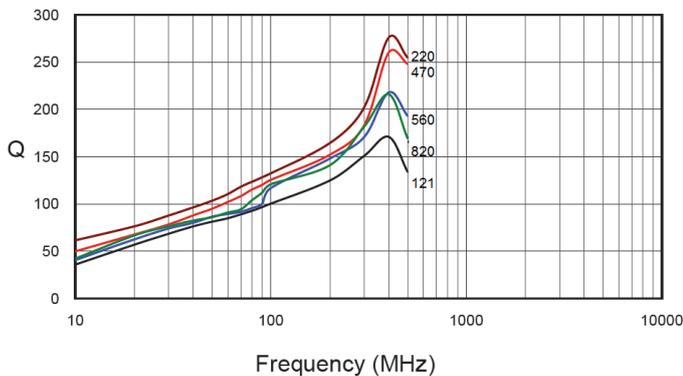
Part Number	Turns	Inductance (nH)	Tolerance (± %)	Min Q	Typ. Q	Test Freq. (MHz)	Max DCR (mΩ)	Min SRF (GHz)	Max Rated Current (A)
SIA22N0□29305P	4	22.0	G,J,K	100	135	150	4.2	3.2	3
SIA27N0□29305P	5	27.0	G,J,K	100	135	150	4	2.7	3.5
SIA33N0□29305P	5	33.0	G,J,K	100	130	150	4.8	2.5	3
SIA39N0□29305P	6	39.0	G,J,K	100	135	150	4.4	2.1	3
SIA47N0□29305P	6	47.0	G,J,K	100	135	150	5.6	2.1	3
SIA56N0□29305P	7	56.0	G,J,K	100	125	150	6.2	1.5	3
SIA68N0□29305P	7	68.0	G,J,K	100	120	150	8.2	1.5	2.5
SIA82N0□29305P	8	82.0	G,J,K	100	120	150	9.4	1.3	2.5
SIA100N□29305P	9	100	G,J,K	100	115	150	12.3	1.2	1.7
SIA120N□29305P	9	120	G,J,K	100	125	150	17.3	1.1	1.5

NOTES:

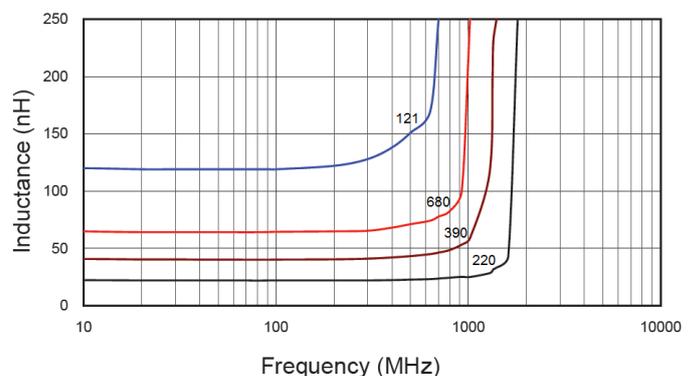
- (Tolerance: G: ± 2%, J: ± 5%, K: ± 10%)
- Operating temperature range: -40°C to +125°C.
- Storage Temp. : -40°C to +85°C.
- MSL: Level 1
- Test Equipment: L/Q: HP-4291B With HP16193A test fixture or equivalent. SRF: HP8753E or equivalent. RDC: Chroma 16502 or equivalent.
- Test Frequency: 150MHz.

CHARACTERISTIC CURVE

Typical Q vs. Frequency



Inductance vs. Frequency



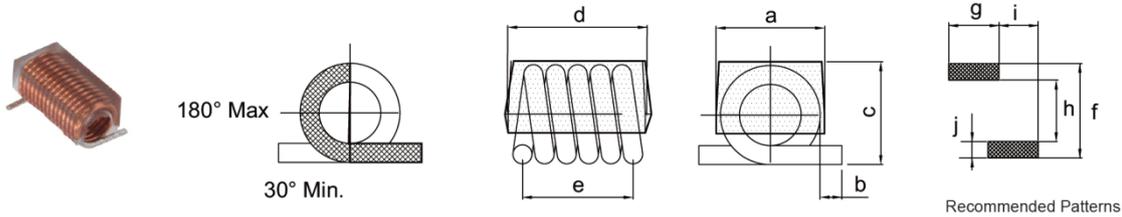
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SIA-29406P PACKAGE

DIMENSION



Unit: mm

Package	a	b	c	d	e	f	g	h	i	j
29406P	6.35 (Max.)	1.02±0.39	5.9 (Max)	10.55 (Max)	7.98±0.51	10.00	4.70	5.95	2.42	2.04

ELECTRICAL CHARACTERISTIC

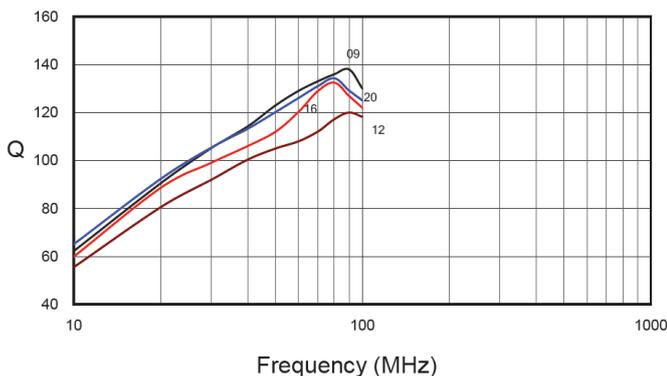
Part Number	Turns	Inductance (nH)	Tolerance (± %)	Min Q	Typ. Q	Test Freq. (MHz)	Max DCR (mΩ)	Min SRF (GHz)	Max Rated Current (A)
SIA90N□29406P	9	90.0	G,J,K	95	114	50	15	1140	3.5
SIA111N□29406P	10	111	G,J,K	87	104	50	15	1020	3.5
SIA130N□29406P	11	130	G,J,K	87	104	50	20	900	3
SIA169N□29406P	12	169	G,J,K	95	114	50	25	875	3
SIA206N□29406P	13	206	G,J,K	95	114	50	30	800	3
SIA222N□29406P	14	222	G,J,K	92	110	50	35	730	3
SIA246N□29406P	15	246	G,J,K	95	114	50	35	685	3
SIA307N□29406P	16	307	G,J,K	95	114	50	35	660	3
SIA380N□29406P	17	380	G,J,K	95	114	50	50	590	2.5
SIA422N□29406P	18	422	G,J,K	95	114	50	60	540	2.5
SIA491N□29406P	19	491	G,J,K	95	114	50	65	535	2
SIA538N□29406P	20	538	G,J,K	87	104	50	90	490	2

NOTES:

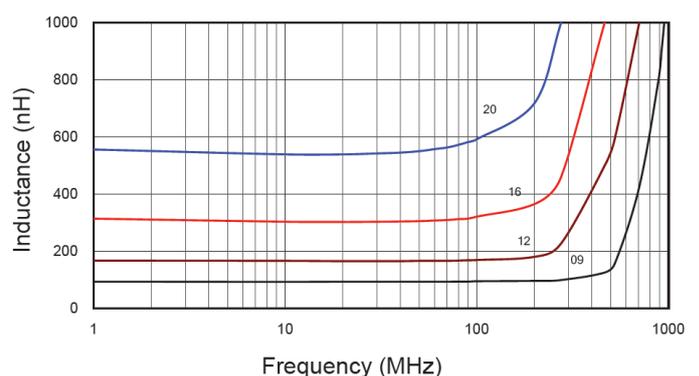
- (Tolerance: G: ± 2%, J: ± 5%, K: ± 10%)
- Operating temperature range: -40°C to +125°C.
- Storage Temp.: -40°C to +85°C.
- MSL: Level 1
- Test Equipment: L/Q: HP-4291B With HP16193A test fixture or equivalent. SRF: HP8753E or equivalent. RDC: CHROMA 16502 or equivalent

CHARACTERISTIC CURVE

Typical Q vs. Frequency



Inductance vs. Frequency



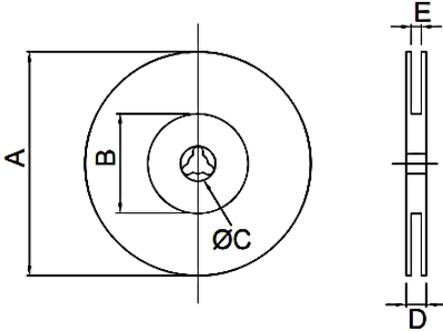
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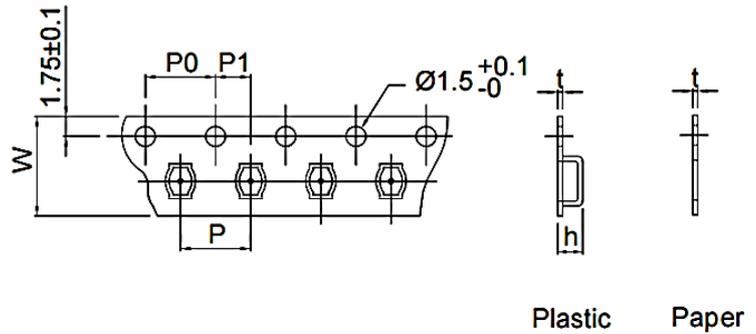
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PACKAGING SPECIFICATION

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



SIA Series	Reel Dimension (mm)					Tape Dimensions (mm)						Parts Per Reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	Box	Carton
080609P	180	50	13	16.4	12.5	12	4	4	2	1.75	0.23	2,000	-	8,000	48,000
080709P	180	50	13	16.4	12.5	12	4	4	2	1.86	0.23	2,000	-	8,000	48,000
090809P	180	50	13	16.4	12.5	12	4	4	2	2.1	0.25	2,000	-	8,000	48,000
29101P	180	75	13	16.5	12.5	12	8	4	2	3.30	0.25	500	-	2,000	12,000
29102P	180	75	13	20.5	16.5	16	8	4	2	3.30	0.25	500	-	1,500	9,000
29305P	340	100	13	25.5	16.5	16	12	4	2	4.40	0.30	-	1,000	1,000	10,000
29406P	340	100	13	30.4	24.5	24	12	4	2	5.30	0.35	-	1,000	1,000	8,000
29203P	180	75	13	12.5	8.4	8	4	4	2	1.7	0.30	2,000	-	10,000	60,000
29204P	180	50	13	18.4	12.4	12	4	4	2	1.75	0.35	2,000	-	6,000	36,000