

SMD Flat Top Air Core Choke Coils / Inductors

SMD Flat Top Air Core Choke is the best choice to replace the traditional spring coil, especially suitable for high-frequency terminal products. It has a stable inductance and the inductance fluctuation is very small. Even nH grade coils can be maintained within a 5% tolerance range. At the same time, the design of low DC impedance greatly reduces its loss and improves the output.

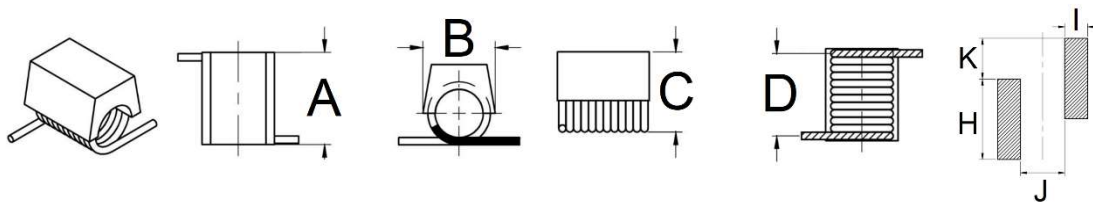
IKP can provide custom design services and tighter tolerance requirements, including different inductance and Q values. It can perfectly match with high-frequency circuits and is the best choice for high-end product selection.

FEATURES:

- High Q value, high frequency
- High resonance frequency
- Good structure and easy to use
- RoHS compliant and halogen free
- The smallest can be 1.8mm * 1.4mm * 1.4mm
- Package: tape and reel
- SMT Automatic packaging
- Accept customer's special specifications



EXTERNAL DIMENSIONS: (unit: mm)



SERIES	A	B	C	D	H	I	J	K
0403	3.70	3.10	3.00	2.90	3.30	1.27	1.65	2.80
0504	4.90	3.80	3.70	4.30	5.16	1.48	2.85	2.62
0703	6.80	3.10	3.00	5.85	3.30	1.27	4.70	2.80
1006	10.60	6.35	6.00	8.00	4.70	2.05	5.95	2.42

**We can design and manufacture customized part with specific requirement

APPLICATIONS:

Power amplifier, antenna module, oscillator, mobile network (GSM, CDMA, PDC, etc.), digital TV tuner, high-frequency communication equipment, wireless equipment and Bluetooth equipment.

HOW TO ORDER:

SFAC - 0403 – 12N5 - J

① ② ③ ④

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- ① SMD Flat Air Core
 - ② Model (Dimensions)
 - ③ Inductance
 - ④ Tolerance: "J" = ±5%; "K" = ±10%; "M" = ±20%

SCHEMATIC:



PHYSICAL AND ELECTRICAL PERFORMANCE PARAMETERS:

Part No	Inductance (nH)	Quality Factor MIN	Test Freq. (mHz)	SRF (MHz) MIN	DCR (mΩ)MAX	Ts	Rated Current (A)MAX
SFAC-0403-2N5K	2.5	145	150	12500(ref)	1.1	1	4.0
SFAC-0403-5N0K	5.0	140	150	6500(ref)	1.8	2	4.0
SFAC-0403-8N0J	8.0	140	150	5000(ref)	2.6	3	4.0
SFAC-0403-12N5J	12.5	137	150	3300(ref)	3.4	4	4.0
SFAC-0403-18N5J	18.5	132	150	2500(ref)	3.9	5	4.0
SFAC-0504-22NJ	22	100	150	3200(ref)	4.2	4	3.0
SFAC-0504-27NJ	27	100	150	2700(ref)	4.0	5	3.5
SFAC-0504-33NJ	33	100	150	2500(ref)	4.8	5	3.0
SFAC-0504-39NJ	39	100	150	2100	4.4	6	3.0
SFAC-0504-47NJ	47	100	150	2100	5.6	6	3.0
SFAC-0504-56NJ	56	100	150	1500	6.2	7	3.0
SFAC-0504-68NJ	68	100	150	1500	8.2	7	2.5
SFAC-0504-82NJ	82	100	150	1300	9.4	8	2.5
SFAC-0504-R10J	100	100	150	1200	12.3	9	1.7
SFAC-0504-R12J	120	100	150	1100	17.3	9	1.5
SFAC-0703-17N5J	17.5	100	150	2200	4.5	6	4.0
SFAC-0703-22NJ	22.0	102	150	2100	5.2	7	4.0
SFAC-0703-28NJ	28.0	105	150	1800	6.0	8	4.0
SFAC-0703-33N5J	35.5	112	150	1500	6.8	9	4.0
SFAC-0703-43NJ	43.0	106	150	1200	7.9	10	4.0
SFAC-1006-90NJ	90	95	50	1140	15.0	9	3.5
SFAC-1006-R111J	111	87	50	1020	15.0	10	3.5
SFAC-1006-R130J	130	87	50	900	20.0	11	3.0
SFAC-1006-R169J	169	95	50	875	25.0	12	3.0
SFAC-1006-R206J	206	95	50	800	30.0	13	3.0

SFAC-1006-R222J	222	92	50	730	35.0	14	3.0
SFAC-1006-R246J	246	95	50	685	35.0	15	3.0
SFAC-1006-R307J	307	95	50	660	35.0	16	3.0
SFAC-1006-R380J	380	95	50	590	50.0	17	2.5
SFAC-1006-R422J	422	95	50	540	60.0	18	2.5
SFAC-1006-R491J	491	95	50	535	65.0	19	2.0
SFAC-1006-R538J	538	87	50	490	90.0	20	2.0