

SURFACE MOUNTING RF AIR CORE INDUCTORS



Features :

- Inductance values from 3.3 nH up to 23.5 nH.
- Flat top and bottom for reliable pick and place and mechanical stability.
- All % values available in 5% tolerance.
- Ag-solder coated leads ensure reliable soldering.

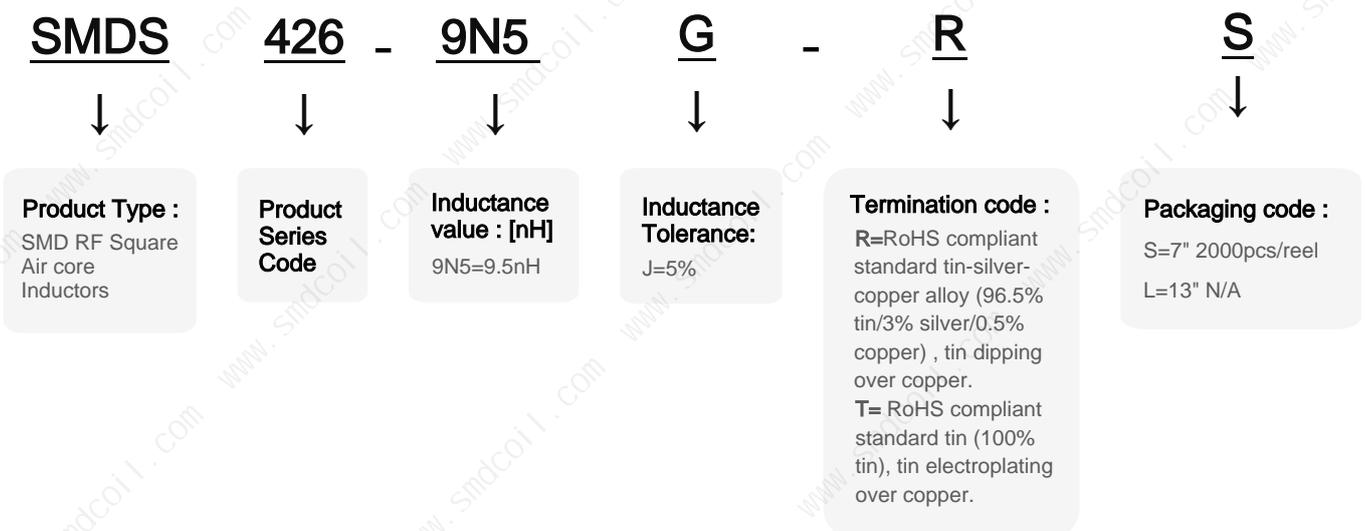
Applications :

- Especially for RF applications.
- Ideal for high current applications.
- Broad band filter.
- RF-Decoupling.

Environmental Data :

- Operating temperature : - 40°C~+125°C, (Including coil's self temperature rise).
- Ambient temperature : - 40°C~+125°C. (referring to Irms) .
- Storage temperature(on tape & reel packing) : - 40°C~+80°C; 75% RH max.
- Full RoHS compliance

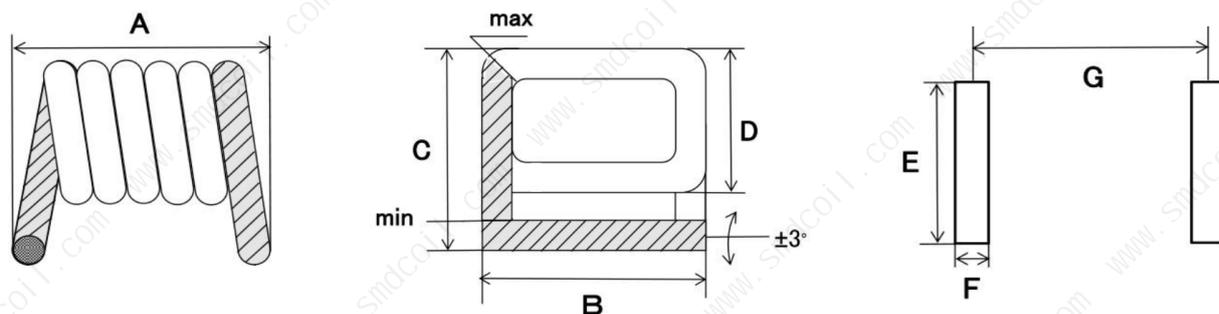
► PRODUCT IDENTIFICATION :



*Please note that the document is subject to change without notice.
Please check website for latest information.
<https://www.smdcoil.com/> <https://www.smdcoil.cn/>

Technical support : sale@smdcoil.com
Tel : 86 769-87199115/13713453758
Dongguan Naheng Electronics Technology Co.,Ltd.

► DIMENSIONS & RECOMMENDED LAND PATTERN : [MM]



Part Number	A	B	C	D	E	F	G
SMDS425-3N3	1.30±0.20	1.30±0.20	1.40±0.20	1.00±0.20	1.50	0.51	1.15
SMDS425-6N8	1.85±0.20	1.30±0.20	1.40±0.20	1.00±0.20	1.50	0.51	1.70
SMDS425-8N2	2.15±0.20	1.30±0.20	1.40±0.20	1.00±0.20	1.50	0.51	2.00
SMDS426-9N5	1.20±0.20	1.90±0.20	2.10±0.20	1.65±0.20	2.60	0.51	0.95
SMDS426-15N	1.45±0.20	1.90±0.20	2.10±0.20	1.65±0.20	2.60	0.51	1.25
SMDS426-20N	1.70±0.20	1.90±0.20	2.10±0.20	1.65±0.20	2.60	0.51	1.55
SMDS429-12N	1.30±0.20	2.15±0.20	2.50±0.20	1.90±0.20	2.90	0.51	1.05
SMDS429-17N	1.60±0.20	2.15±0.20	2.50±0.20	1.90±0.20	2.90	0.51	1.45
SMDS429-23N	1.90±0.20	2.15±0.20	2.50±0.20	1.90±0.20	2.90	0.51	1.75

► ELECTRICAL SPECIFICATION :

Part Number	Turns	Inductance nH	Percent tolerance	Test Freq. (MHz)	Q REF	Weight(mg)
SMDS425-3N3	3	3.3	5%	100	20	5
SMDS425-6N8	5	6.8	5%	100	40	8
SMDS425-8N2	6	8.2	5%	100	50	9
SMDS426-9N5	3	9.5	5%	100	20	9
SMDS426-15N	4	15.0	5%	100	30	12
SMDS426-20N	5	20.0	5%	100	50	14
SMDS429-12N	3	11.8	5%	100	20	13
SMDS429-17N	4	17.7	5%	100	30	16
SMDS429-23N	5	23.5	5%	100	40	20

* Custom designs are available upon requested.

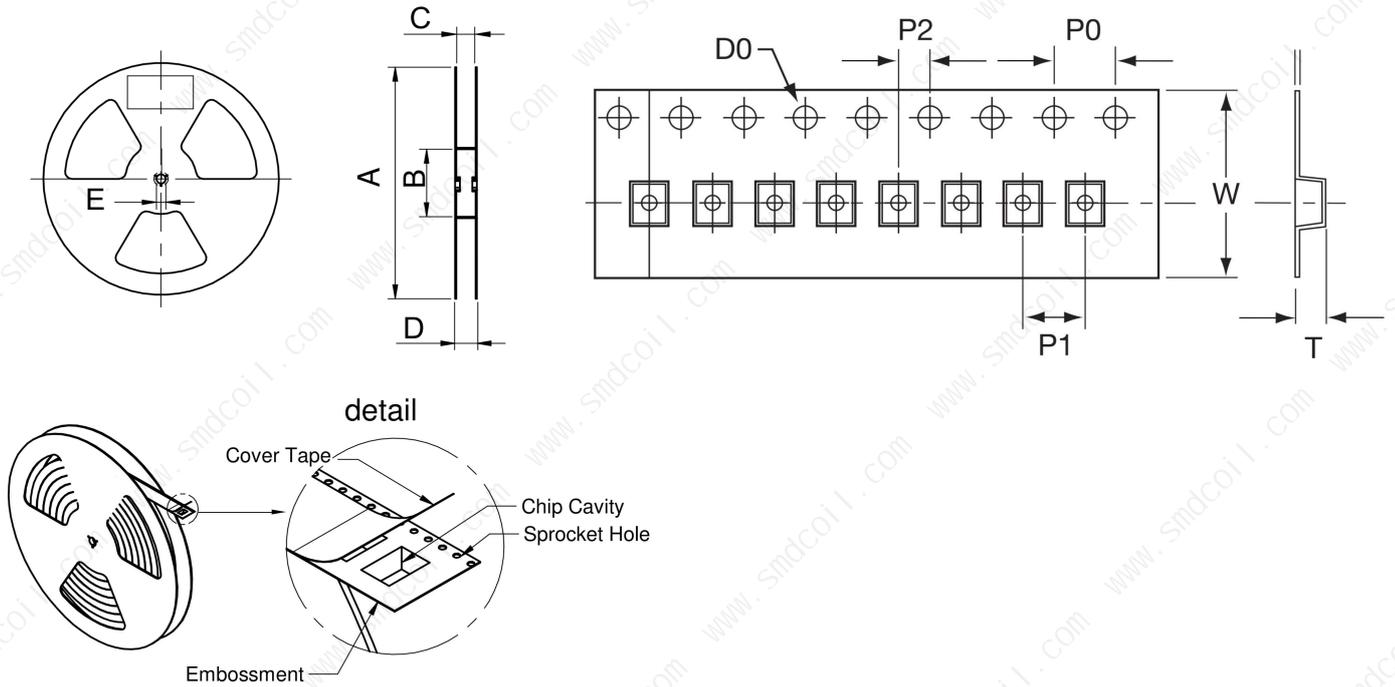
Note :

1. Inductance & Q measured on the HP4287A. With HP16193A test fixture.
2. SRF measured using HP8753 network analyzer and SMD test fixture.
3. Electrical specifications at 25.
4. Resistance to soldering heat : Max three 40s reflows at 260°C, parts cooled to room temperature between cycles.
5. Moisture Sensitivity Level (MSL) 1

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► PACKAGING DIAGRAM



Part Number	Parts per reel	Reel dimensions (mm)					Tape dimensions (mm)					
	7"(178mm)	A	B	C	D	E	W	D0	P0	P1	P2	T
SMDS425	2000	178	60	8.4	12.4	13	8	1.5	4	4	2	1.50
SMDS429	2000	178	60	8.4	12.4	13	8	1.5	4	4	2	2.40
SMDS429	2000	178	60	8.4	12.4	13	8	1.5	4	4	2	2.60

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