

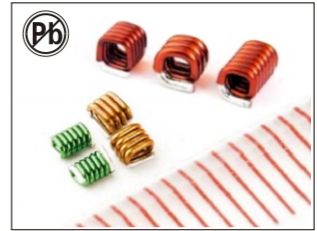
SMD Coil SMAR SERIES

FEATURES:

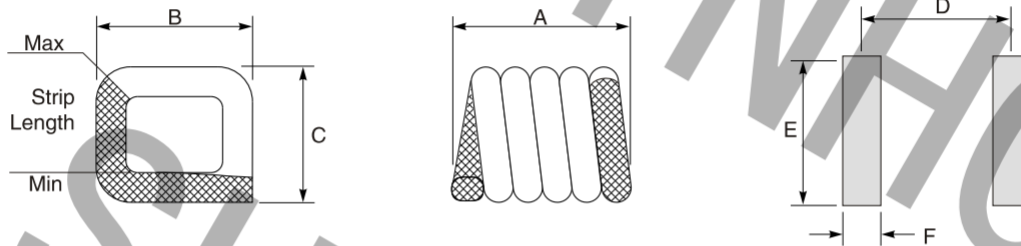
- Inductance values from 5.5 nH up to 27.3 nH.
- Excellent Quality Factor– up to 130.
- High self–resonant frequency.
- Ultra–miniature size, hight currents up to 4.4 Amps.
- All value availbale in 2%, 5% tolerance.
- Ag–solder coated leads ensure reliable soldering.
- Flat top and bottom for reliable pick and place and mechanical stability.

APPLICATIONS:

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



PHYSICAL CHARACTERISTICS:



Part No.	A ±0.15	B ±0.15	C ±0.15	D	E	F	Weight (mg)
SMAR1814–5N5□	1.35	1.83	1.40	0.96	2.60	0.51	9.9
SMAR1814–6N0□	1.30	1.83	1.40	0.99	2.60	0.51	8.5
SMAR1814–8N9□	1.63	1.83	1.40	1.27	2.60	0.51	10.8
SMAR1814–12N□	1.93	1.83	1.40	1.63	2.60	0.51	13.6
SMAR1814–16N□	2.29	1.83	1.40	1.96	2.60	0.51	16.1
SMAR1814–19N□	2.59	1.83	1.40	2.3	2.60	0.51	18.7
SMAR1815–6N9□	1.30	1.83	1.52	1.02	2.60	0.51	9.1
SMAR1815–10N□	1.63	1.83	1.52	1.32	2.60	0.51	11.5
SMAR1815–11N□	1.55	1.83	1.52	1.24	2.60	0.51	11.5
SMAR1815–14N□	1.93	1.83	1.52	1.57	2.60	0.51	14.0
SMAR1815–17N□	2.29	1.83	1.52	1.93	2.60	0.51	16.8
SMAR1815–22N□	2.59	1.83	1.52	2.30	2.60	0.51	19.4
SMAR2118–8N1□	1.47	2.14	1.83	1.12	2.80	0.64	12.8
SMAR2118–12N□	1.85	2.14	1.83	1.45	2.80	0.64	16.9
SMAR2118–14N□	1.55	2.14	1.83	1.24	2.80	0.64	13.5
SMAR2118–17N□	2.21	2.14	1.83	1.83	2.80	0.64	21.1
SMAR2118–22N□	2.56	2.14	1.83	2.18	2.80	0.64	24.7
SMAR2118–23N□	2.24	2.14	1.83	1.90	2.80	0.64	19.2
SMAR2118–25N□	2.97	2.14	1.83	2.57	2.80	0.64	27.6
SMAR2118–27N□	2.97	2.14	1.83	2.57	2.80	0.64	28.7

Packaging code

- S=7" machine–ready reel. EIA–48 Embossed plastic tape. 2000 pcs/reel
- S=13" machine–ready reel. EIA–48 Embossed plastic tape. 7500 pcs/reel

ELECTRICAL CHARACTERISTICS: @25°C

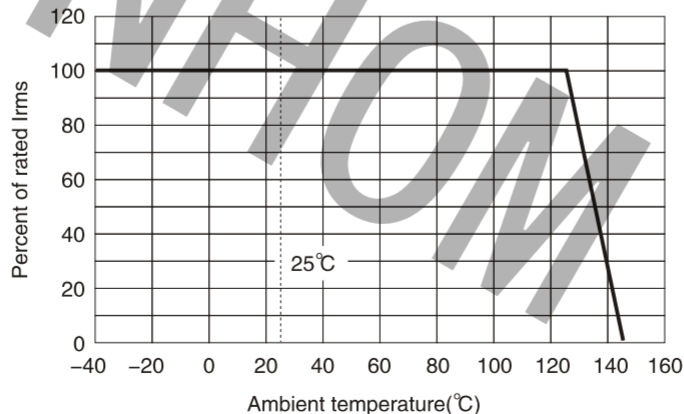
Part No.	Inductance (nH)	Tol ± %	Q Typ.	SRF(GHz) Typ.	DCR(mΩ) Max	Irms (A)
SMAR1814-5N5□	5.5	2,5	60	4.9	3.4	2.9
SMAR1814-6N0□	6.0	2,5	64	5.2	6.0	2.9
SMAR1814-8N9□	8.9	2,5	90	4.3	7.0	2.9
SMAR1814-12N□	12.0	2,5	90	4.8	8.0	2.9
SMAR1814-16N□	16.0	2,5	90	4.4	9.0	2.9
SMAR1814-19N□	19.0	2,5	90	4.0	10.0	2.9
SMAR1815-6N9□	6.9	2,5	100	4.6	6.0	2.7
SMAR1815-10N□	10.0	2,5	100	4.0	7.0	2.7
SMAR1815-11N□	11.0	2,5	90	3.6	6.3	2.7
SMAR1815-14N□	14.0	2,5	100	4.3	8.0	2.7
SMAR1815-17N□	17.0	2,5	100	4.0	9.0	2.7
SMAR1815-22N□	22.0	2,5	100	3.5	10.0	2.7
SMAR2118-8N1□	8.1	2,5	130	5.2	6.0	4.4
SMAR2118-12N□	12.0	2,5	130	4.3	7.0	4.4
SMAR2118-14N□	14.0	2,5	90	3.0	7.2	4.4
SMAR2118-17N□	17.0	2,5	130	3.4	8.0	4.4
SMAR2118-22N□	22.0	2,5	130	3.7	9.0	4.4
SMAR2118-23N□	23.0	2,5	130	2.6	10.0	4.4
SMAR2118-25N□	25.0	2,5	130	2.5	10.0	4.4
SMAR2118-27N□	27.0	2,5	130	3.2	10.0	4.4

□ Inductance Tolerance: G: ± 2%, J: ± 5%

Notes:

1. Inductance measured at 400MHz, 0.1Vrms, 0 A using HP4287A LCR meter or equivalent with 9699 test fixture.
2. Q measured at 400MHz, using HP4287A LCR meter or equivalent.
3. SRF measured using HP8753 network analyzer and SMD test fixture.
4. Irms: Current that causes a 20°C temperature rise from 25°C ambient.
5. Resistance to soldering heat : Max three 40s reflows at 260°C, parts cooled to room temperature between cycles.
6. Temperature Coefficient of Inductance: +5 to + 70ppm/°C.
7. Operating temperature: -40°C ~ +125°C, (Including coil's self temperature rise).
8. Ambient temperature: -40°C ~ +125°C. (referring to Irms)
9. Storage temperature(on tape & reel packing): -40°C ~ +80°C; 75% RH max.

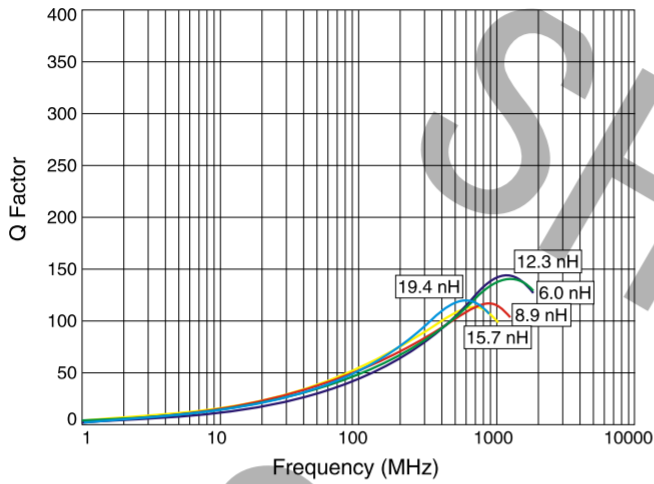
Irms derating



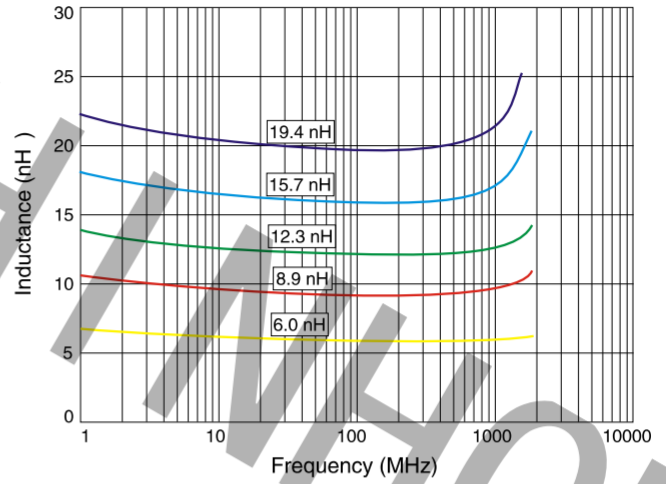
Typical Q vs Frequency

Typical L vs Frequency

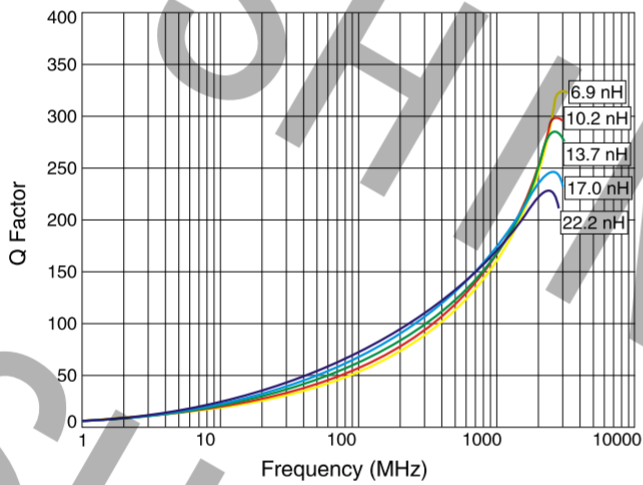
SMAR1814



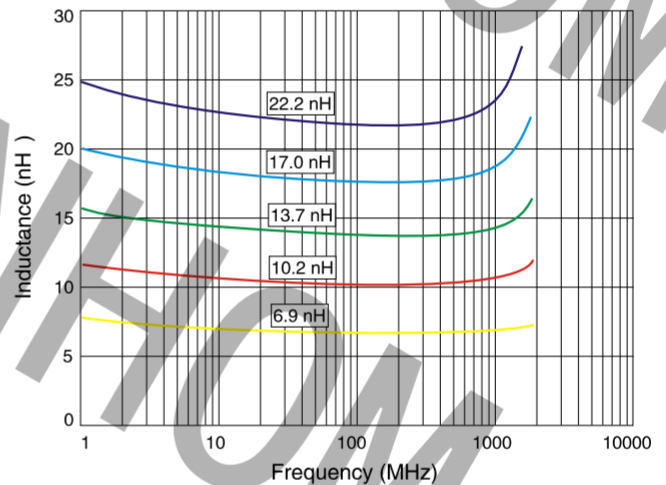
SMAR1814



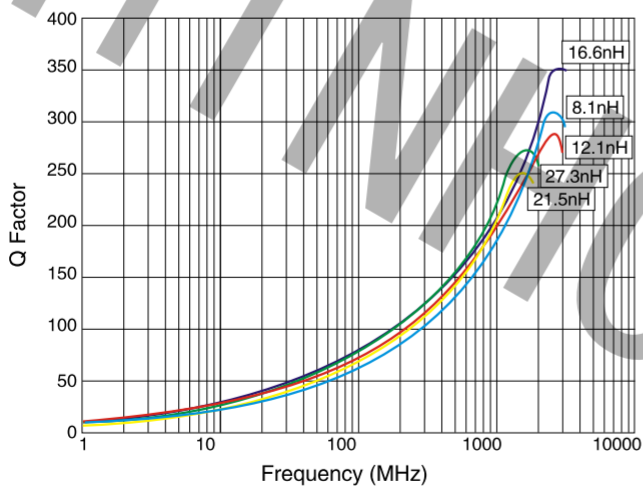
SMAR1815



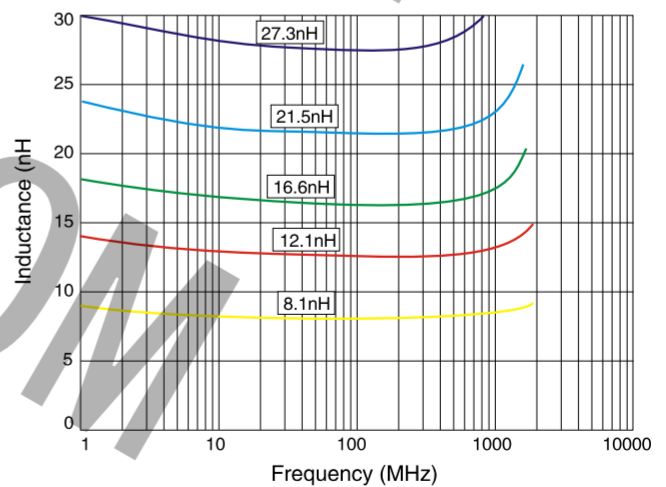
SMAR1815



SMAR2118



SMAR2118



SMD Coil SMAR SERIES

FEATURES:

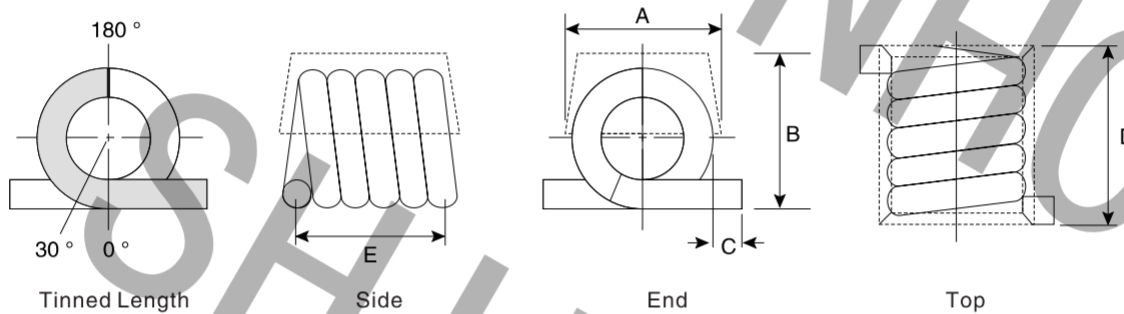
- Air Core Construction
- High Q
- High Current
- Excellent SRF
- Many inductance values ranging from 1.65nH to 538nH
- Inductance Tolerance 2%, 5%, 10%
- Rated Current 1.5A to 4.0A
- Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Storage temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

APPLICATIONS:

- RF Applications
- RF Circuits
- Broadband I/O Filtering
- Impedance Matching/Tuning
- Decoupling/Bypassing

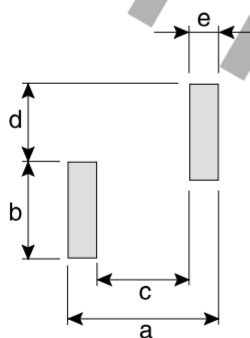


PHYSICAL CHARACTERISTICS:



Part No.	A	B	C	D	E
SMAR1422	1.42 ± 0.13	1.37 ± 0.15	0.89 ± 0.25	2.21 ± 0.25	1.83 ± 0.25
SMAR1440	1.42 ± 0.13	1.37 ± 0.15	0.89 ± 0.25	4.04 ± 0.25	3.66 ± 0.3
SMAR3037	3.05Max	3.18Max	0.58 ± 0.38	3.68Max	2.92 ± 0.25
SMAR3068	3.05Max	3.18Max	0.58 ± 0.38	6.86Max	5.84 ± 0.25
SMAR3848	3.81Max	4.20Max	1.53 ± 0.39	4.83Max	4.32 ± 0.39
SMAR6310	6.35Max	5.90Max	1.02 ± 0.39	10.55Max	7.98 ± 0.51

RECOMMENDED LAND PATTERNS:



Part No.	a	b	c	d	e
SMAR1422	2.62	2.46	1.04	1.02	0.79
SMAR1440	4.45	2.46	2.87	1.02	0.79
SMAR3037	4.19	3.30	1.65	2.79	1.27
SMAR3068	7.24	3.30	4.70	2.79	1.27
SMAR3848	5.80	5.16	2.85	2.62	1.48
SMAR6310	10.0	4.70	2.95	2.42	2.04

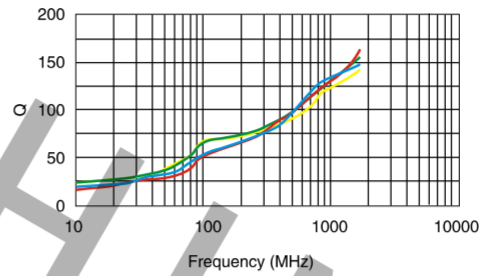
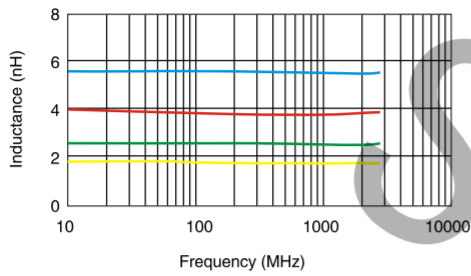
ELECTRICAL CHARACTERISTICS: @25°C

Part No.	Turns	Inductance (nH)	Tol ± %	Test freq. (MHz)	Q Typ.	SRF(GHz) Typ.	DCR(mΩ) Max	Irms (A)
SMAR1422-1N65□	2	1.65	10	800	100	10	4	1.6
SMAR1422-2N55□	3	2.55	5,10	800	100	8.2	5	1.6
SMAR1422-3N85□	4	3.85	2,5,10	800	100	7.5	6	1.6
SMAR1422-5N45□	5	5.45	2,5	800	100	7	8	1.6
SMAR1440-5N6□	6	5.6	2,5	800	100	6.5	9	1.6
SMAR1440-7N15□	7	7.15	2,5	800	100	6	10	1.6
SMAR1440-8N8□	8	8.8	2,5	800	100	6	12	1.6
SMAR1440-9N85□	9	9.85	2,5	800	100	5.2	13	1.6
SMAR1440-12N5□	10	12.55	2,5	800	100	4.6	14	1.6
SMAR3037-2N5□	1	2.5	10	150	145	12.5	1.1	4.0
SMAR3037-5N0□	2	5	5,10	150	140	6.5	1.8	4.0
SMAR3037-8N0□	3	8	2,5	150	140	5	2.6	4.0
SMAR3037-12N5□	4	12.5	2,5	150	137	3.3	3.4	4.0
SMAR3037-18N5□	5	18.5	2,5	150	132	2.5	3.9	4.0
SMAR3068-17N5□	6	17.5	2,5	150	100	2.2	4.5	4.0
SMAR3068-22N0□	7	22	2,5	150	102	2.1	5.2	4.0
SMAR3068-28N0□	8	28	2,5	150	105	1.8	6	4.0
SMAR3068-35N5□	9	35.5	2,5	150	112	1.5	6.8	4.0
SMAR3068-43N0□	10	43	2,5	150	106	1.2	7.9	4.0
SMAR3848-22N0□	4	22	2,5	150	100	3.2	4.2	3.0
SMAR3848-27N0□	5	27	2,5	150	100	2.7	4	3.5
SMAR3848-33N0□	5	33	2,5	150	100	2.5	4.8	3.0
SMAR3848-39N0□	6	39	2,5	150	100	2.1	4.4	3.0
SMAR3848-47N0□	6	47	2,5	150	100	2.1	5.6	3.0
SMAR3848-56N0□	7	56	2,5	150	100	1.5	6.2	3.0
SMAR3848-68N0□	7	68	2,5	150	100	1.5	8.2	2.5
SMAR3848-82N0□	8	82	2,5	150	100	1.3	9.4	2.5
SMAR3848-100N□	9	100	2,5	150	100	1.2	12.3	1.7
SMAR3848-120N□	9	120	2,5	150	100	1.1	17.3	1.5
SMAR6310-90N0□	9	90	2,5	50	95	1.14	15	3.5
SMAR6310-111N□	10	111	2,5	50	87	1.02	15	3.5
SMAR6310-130N□	11	130	2,5	50	87	0.900	20	3.0
SMAR6310-169N□	12	169	2,5	50	95	0.875	25	3.0
SMAR6310-206N□	13	206	2,5	50	95	0.800	30	3.0
SMAR6310-222N□	14	222	2,5	50	92	0.730	35	3.0
SMAR6310-246N□	15	246	2,5	50	95	0.685	35	3.0
SMAR6310-307N□	16	307	2,5	50	95	0.660	35	3.0
SMAR6310-380N□	17	380	2,5	50	95	0.590	50	2.5
SMAR6310-422N□	18	422	2,5	50	95	0.540	60	2.5
SMAR6310-491N□	19	491	2,5	50	95	0.535	65	2.0
SMAR6310-538N□	20	538	2,5	50	87	0.490	90	2.0

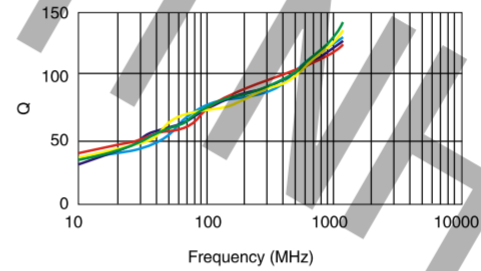
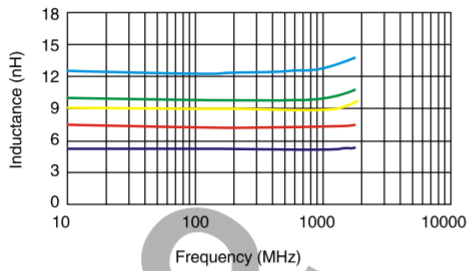
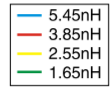
□ Inductance Tolerance: G: ± 2%, J: ± 5%, K: ± 10%

Inductance vs. Frequency

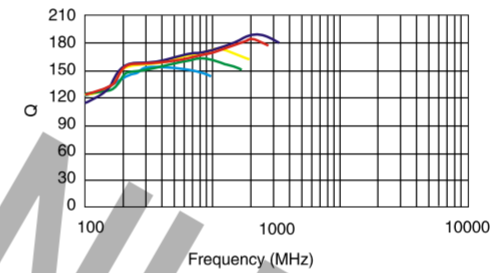
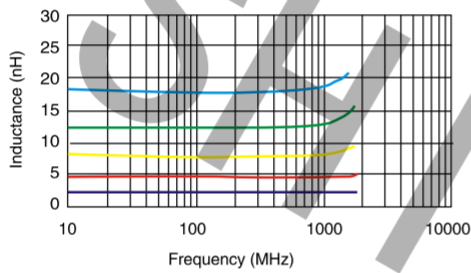
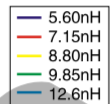
Typical Q vs. Frequency



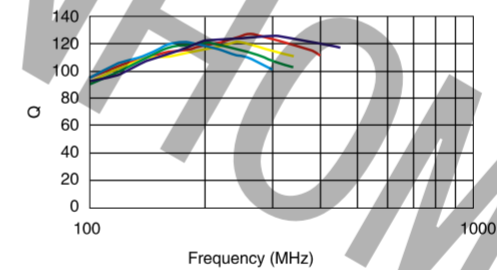
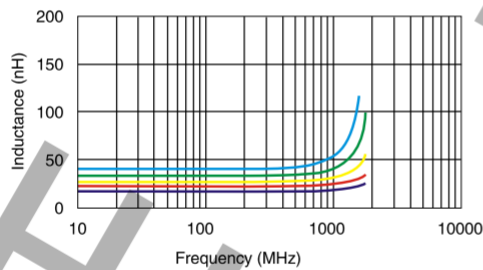
SMAR1422



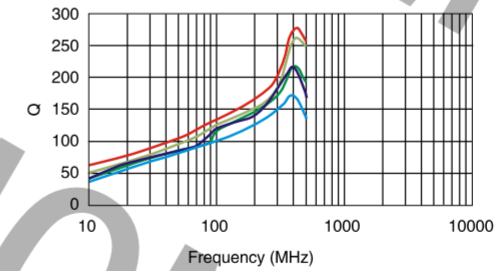
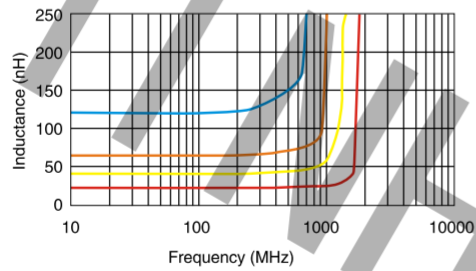
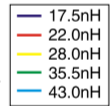
SMAR1440



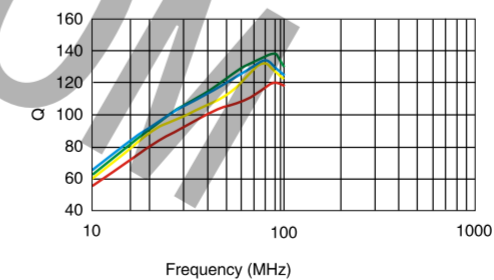
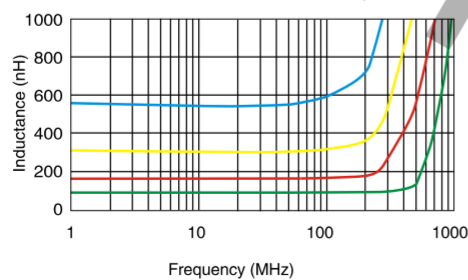
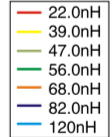
SMAR3037



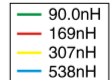
SMAR3068



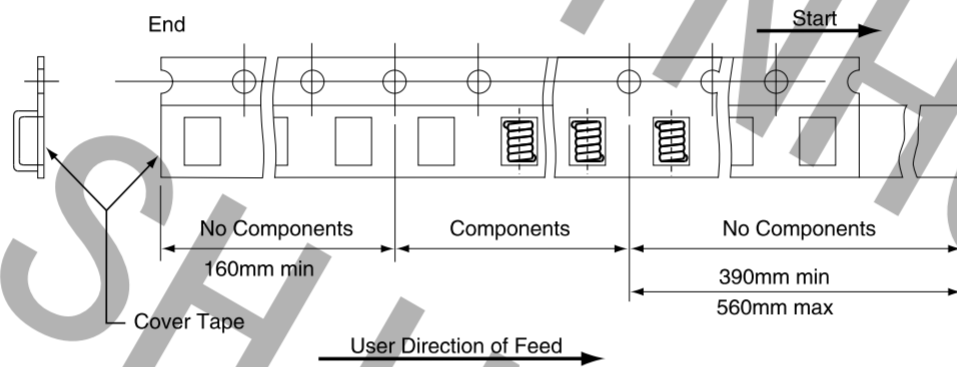
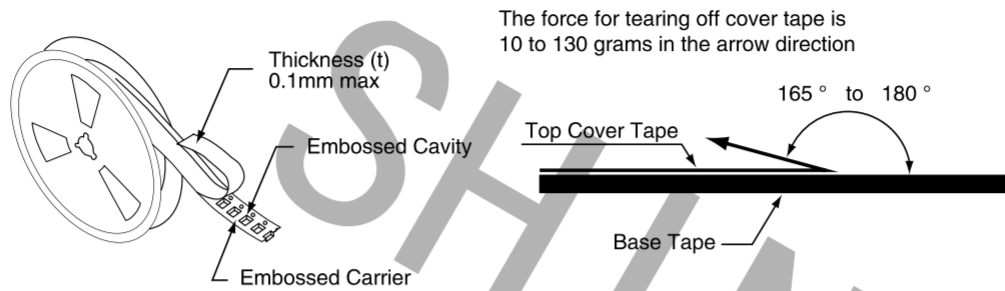
SMAR3848



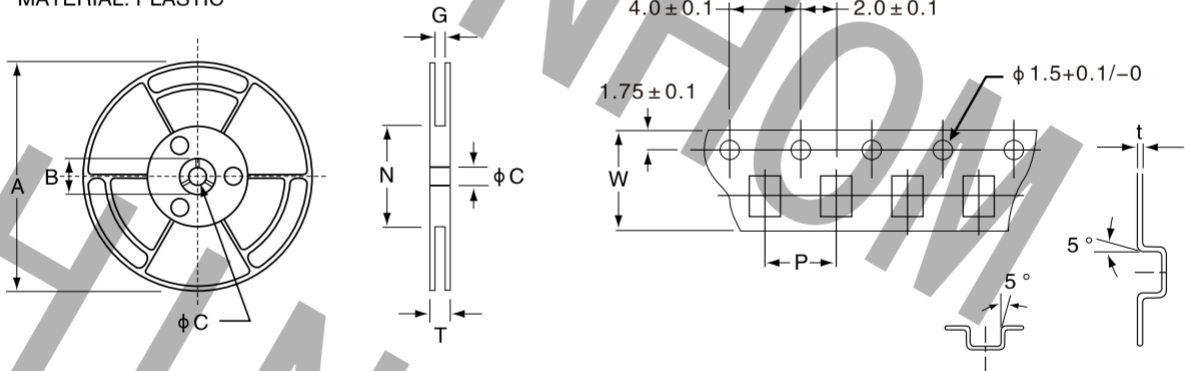
SMAR6310



PACKAGING SPECIFICATIONS

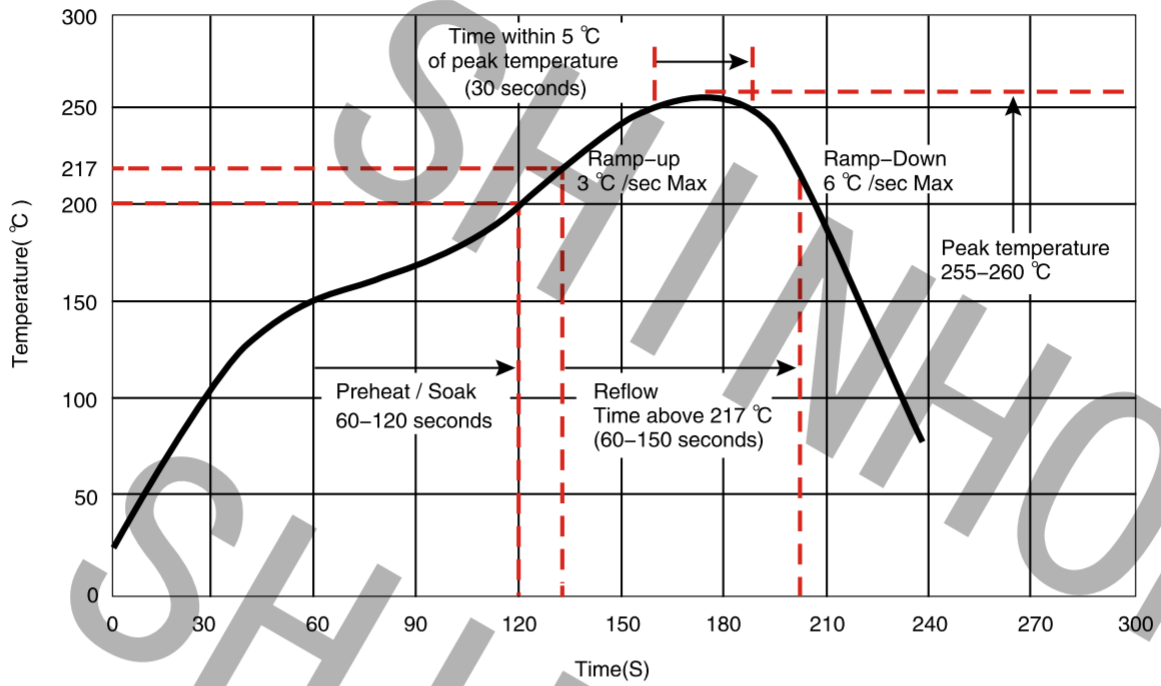


MATERIAL: PLASTIC



Part No.	A	B	C	N	G	T	W	P	t
SMAR1422	178 $\pm$ 2	21 $\pm$ 0.8	13 $\pm$ 0.8	75 $\pm$ 2	8.4 $\pm$ 1.5/-0	12.5 $\pm$ 1.5/-0	8 $\pm$ 0.3	4 $\pm$ 0.1	0.3 $\pm$ 0.05
SMAR1440	178 $\pm$ 2	21 $\pm$ 0.8	13 $\pm$ 0.5/-0.2	50Min	12.4 $\pm$ 2/-0	18.4Max	12 $\pm$ 0.3	4 $\pm$ 0.1	0.35 $\pm$ 0.05
SMAR3037	178 $\pm$ 2	25 $\pm$ 1	15 $\pm$ 0.5	75 $\pm$ 2	12.5 $\pm$ 1.5/-0	16.4 $\pm$ 1.5/-0	12 $\pm$ 0.2	8 $\pm$ 0.1	0.25 $\pm$ 0.05
SMAR3068	178 $\pm$ 2	50 $\pm$ 1	15 $\pm$ 0.5	75 $\pm$ 2	16.5 $\pm$ 1.5/-0	20.4 $\pm$ 1.5/-0	16 $\pm$ 0.2	8 $\pm$ 0.1	0.25 $\pm$ 0.05
SMAR3848	340Max	20.2Min	13 $\pm$ 0.5	100Ref	16.5 $\pm$ 0.5	25.5 $\pm$ 0.5	16 $\pm$ 0.3	12 $\pm$ 0.1	0.3 $\pm$ 0.5
SMAR6310	340Max	20.2Min	13 $\pm$ 0.5	100Ref	24.5 $\pm$ 0.5	30.4 $\pm$ 0.5	24 $\pm$ 0.3	12 $\pm$ 0.1	0.35 $\pm$ 0.05

TYPICAL RoHS REFLOW PROFILE

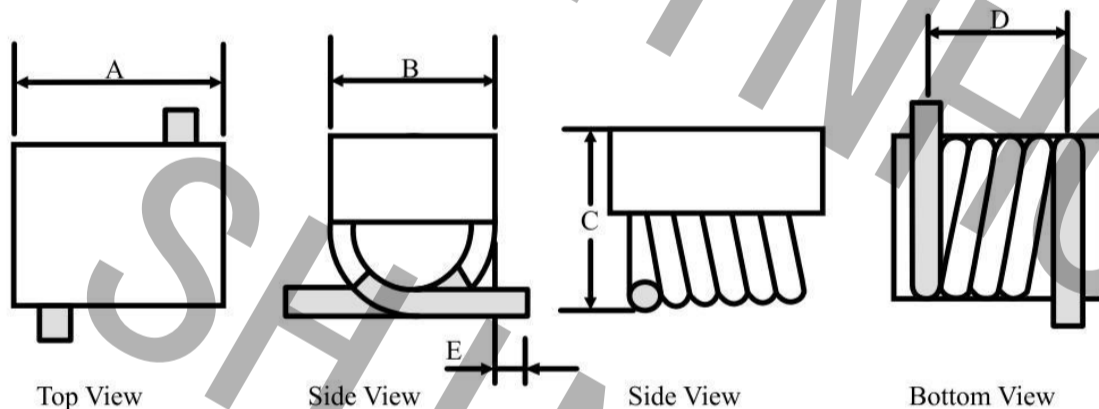


Air Core Coil Features

- Air core inductors feature high Q and current handling
- Acrylic top provides a flat surface for pick and place
- Solder coated leads ensure reliable soldering
- Operating temperature range: -40°C to +125°C
- Storage temperature range: -55°C to +145°C



Air Core Coil Inductor Dimensions & Configurations (Unit In mm)

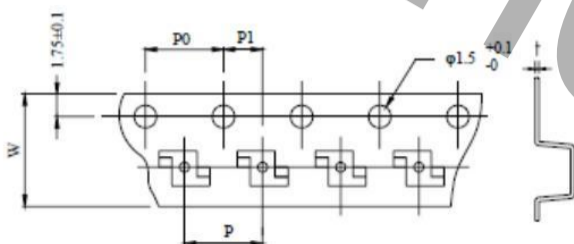


P/N Type	A	B	C	D	E
SMAR1210	3.3±0.3	2.60±0.2	2.70±0.2	2.90±0.3	0.70±0.2

Specification

Part No.	(A)Max	(nH)	Q(min)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz)	Coilcraft P/N	Würth P/N
SMAR1210 - 2N5G 4.0	2.5	145	150	1.1	>3.0	A01T	744913025	
SMAR1210 - 5N0G 4.0	5.0	140	150	1.8	>3.0	A02T	744913050	
SMAR1210 - 8N0G 4.0	8.0	140	150	2.6	>3.0	A03T	744913080	
SMAR1210 - 12N5G 4.0	12.5	137	150	3.4	>3.0	A04T	744913112	
SMAR1210 - 18N5G 4.0	18.5	132	150	3.9	>2.5	A05T	744913118	

Tape & Reel Information



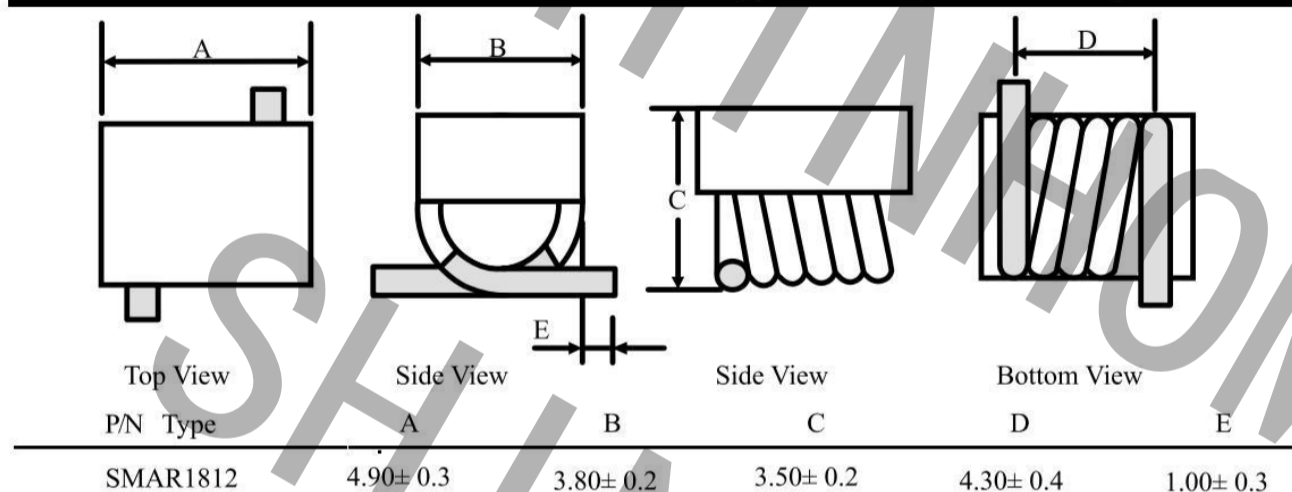
Parameter	Units	Value
Qty per reel	PCS	700
Reel Size	mm	330
Tape Width	mm	12.00
P	mm	8.00
P0	mm	4.00
P1	mm	2.00

Air Core Coil Features

- Air core inductors feature high Q and current handling
- Acrylic top provides a flat surface for pick and place
- Solder coated leads ensure reliable soldering
- Operating temperature range: -40 °C to +125 °C
- Storage temperature range: -55 °C to +145 °C



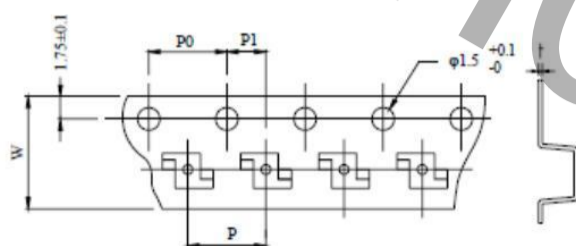
Air Core Coil Inductor Dimensions & Configurations (Unit In mm)



Specification

Part No.	(A)Max	(nH)	Q(min)	Test Freq (MHz)	DCR (mΩ)Max	SRF (GHz)	Coilcraft P/N	Würth P/N
SMAR1812- 22NG	3.0	22	100	150	4.2	3.20	1812SMS-22N	744912122
SMAR1812- 27NG	3.5	27	100	150	4.0	2.70	1812SMS-27N	744912127
SMAR1812- 33NG	3.0	33	100	150	4.8	2.50	1812SMS-33N	744912133
SMAR1812- 39NG	3.0	39	100	150	4.4	2.10	1812SMS-39N	744912139
SMAR1812- 47NG	3.0	47	100	150	5.6	2.10	1812SMS-47N	744912147
SMAR1812- 56NG	3.0	56	100	150	6.2	1.50	1812SMS-56N	744912156
SMAR1812- 68NG	2.5	68	100	150	8.2	1.50	1812SMS-68N	744912168
SMAR1812- 82NG	2.5	82	100	150	9.4	1.30	1812SMS-82N	744912182
SMAR1812- 100NG	1.7	100	100	150	12.3	1.20	1812SMS-R10	744912210
SMAR1812- 120NG	1.5	120	100	150	17.3	1.10	1812SMS-R12	744912212
SMAR1812- 150NG	1.2	150	100	150	33.0	0.75	1812SMS-R15	

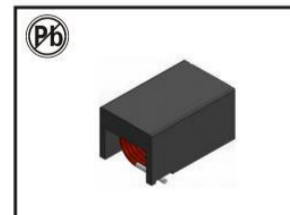
Tape & Reel Information



Parameter	Units	Value
Qty per reel	PCS	500
Reel Size	mm	330
Tape Width	mm	12.00
P	mm	12.00
P0	mm	4.00
P1	mm	6.00

Air Core Coil Features

- Air core inductors feature high Q and current handling
- Acrylic top provides a flat surface for pick and place
- Solder coated leads ensure reliable soldering
- Operating temperature range: -40 °C to +125 °C
- Storage temperature range: -55 °C to +145 °C



Air Core Coil Inductor Dimensions & Configurations (Unit In mm)

Top View		Side View		Side View		Bottom View
P/N	Type	A	B	C	D	E
SMAR4024		10.5(max)	7.0(max)	6.0(max)	6.1±0.2	8.0±0.6

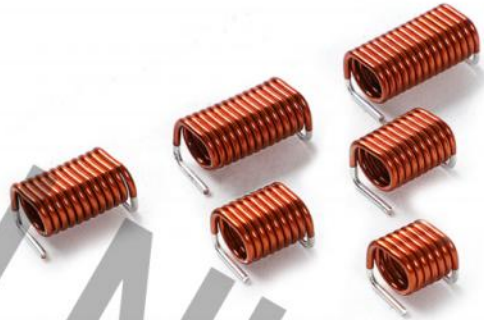
Specification

Part No.		(A)Max	(nH)	Q(min)	Test Freq (MHz)	DCR (mΩ)Max	SRF(GHz)	Coilcraft	P/N	Würth	P/N
SMAR4024	-	90NG	3.5	90	100	50	15	>1.0	132-09SM	744918190	
SMAR4024	-	111NG	3.5	111	100	50	15	>1.0	132-10SM	744918211	
SMAR4024	-	130NG	3.0	130	100	50	20	>0.9	132-11SM	744918213	
SMAR4024	-	169NG	3.0	169	100	50	25	>0.8	132-12SM	744918217	
SMAR4024	-	206NG	3.0	206	100	50	30	>0.7	132-13SM	744918220	
SMAR4024	-	222NG	3.0	222	100	50	35	>0.6	132-14SM	744918222	
SMAR4024	-	246NG	3.0	246	100	50	35	>0.6	132-15SM	744918224	
SMAR4024	-	307NG	3.0	307	100	50	35	>0.5	132-16SM	744918230	
SMAR4024	-	380NG	2.5	380	100	50	50	>0.5	132-17SM	744918238	
SMAR4024	-	422NG	2.5	422	100	50	60	>0.4	132-18SM	744918242	
SMAR4024	-	491NG	2.0	491	100	50	65	>0.4	132-19SM	744918249	
SMAR4024	-	538NG	2.0	538	100	50	90	>0.4	132-20SM	744918254	

SURFACE MOUNTING RF AIR CORE INDUCTORS SMAR SERIES

Features :

- Inductance values from 27 nH up to 500 nH.
- Excellent Q factors - up to 230 at 400 MHz.
- Current handling as high as 5.7 Amps.
- Flat top for reliable pick and place and mechanical stability.
- All % values available in 2%,5% tolerance.
- Ag-solder coated leads ensure reliable soldering.



Applications :

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

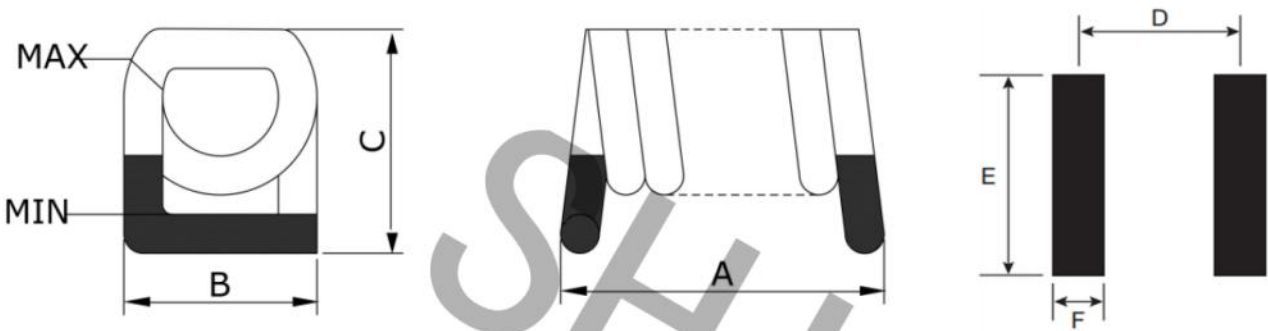
Environmental Data :

- 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 :

SMAR	0540	–	27N	G	–	R	S
↓	↓		↓	↓		↓	↓
Product Type : SMD RF Semi-Round Air core Inductors	Product Series Code		Inductance value : [nH] 27N=27nH	Inductance Tolerance: G: ±2% J: ±5%		Termination code : R=RoHS compliant standard tin-silver-copper alloy (96.5% tin / 3% silver/ 0.5% copper) , tin dipping over copper. T=RoHS compliant standard tin (100% tin), tin electroplating over copper. (Only applicable for SMAR0540, SMAR0550 two series)	Packaging code : S=7" reel L=13" reel

DIMENSIONS & RECOMMENDED LAND PATTERN : [MM]



Part number	A	B	C	D	E	F	Weight (mg)
SMAR0540-27N	2.67±0.254	2.67±0.381	2.79±0.127	2.29	3.05	1.02	35
SMAR0540-30N	2.67±0.254	2.67±0.381	2.79±0.127	2.29	3.05	1.02	36
SMAR0540-33N	2.92±0.254	2.67±0.381	2.79±0.127	2.54	3.05	1.02	42
SMAR0540-36N	2.92±0.254	2.67±0.381	2.79±0.127	2.54	3.05	1.02	43
SMAR0540-39N	2.92±0.254	2.67±0.381	2.79±0.127	2.54	3.05	1.02	45
SMAR0540-43N	3.30±0.254	2.67±0.381	2.79±0.127	2.79	3.05	1.02	46
SMAR0540-47N	3.30±0.254	2.67±0.381	2.79±0.127	2.79	3.05	1.02	50
SMAR0550-47N	4.06±0.254	3.56±0.178	3.73±0.178	3.56	4.45	1.78	110
SMAR0550-68N	5.33±0.254	3.56±0.178	3.73±0.178	4.83	4.45	1.78	143
SMAR0550-82N	5.84±0.254	3.56±0.178	3.73±0.178	5.33	4.45	1.78	165
SMAR0570-90N	5.21±0.381	5.46±0.254	5.69±0.254	4.45	6.48	2.16	280
SMAR0570-110	6.35±0.381	5.59±0.254	5.69±0.254	5.84	6.73	2.16	330
SMAR0570-130	6.73±0.381	5.59±0.254	5.69±0.254	6.22	6.73	2.16	365
SMAR0570-160	7.73±0.381	5.59±0.254	5.69±0.254	6.60	6.73	2.16	425
SMAR0570-180	8.13±0.381	5.59±0.254	5.69±0.254	7.37	6.73	2.16	455
SMAR0570-220	9.91±0.381	5.59±0.254	5.69±0.254	9.14	6.73	2.16	550
SMAR0570-270	11.68±0.381	5.59±0.254	5.69±0.254	10.67	6.73	2.16	640
SMAR0570-300	11.94±0.381	5.72±0.254	5.69±0.254	11.18	6.73	2.16	680
SMAR0580-330	10.29±0.381	7.49±0.254	7.24±0.254	9.35	8.26	2.29	865
SMAR0580-360	11.30±0.381	7.49±0.254	7.24±0.254	10.54	8.26	2.29	930
SMAR0580-390	12.32±0.381	7.49±0.254	7.24±0.254	11.56	8.26	2.29	990
SMAR0580-430	13.21±0.381	7.49±0.254	7.24±0.254	12.45	8.26	2.29	1070
SMAR0580-500	14.00±0.381	7.49±0.254	7.24±0.254	13.21	8.26	2.29	1160

ELECTRICAL SPECIFICATION :

Part number	Inductance (nH)	Percent tolerance	Q typ	Test frequency (MHz)	SRF min GHz	DC Resistance (mΩ) max	Irms (A)
SMAR0540-27N	27	5 , 2	200	400	2.60	8.1	5.5
SMAR0540-30N	30	5 , 2	200	400	2.40	8.3	5.5
SMAR0540-33N	33	5 , 2	200	400	2.30	9.5	4.8
SMAR0540-36N	36	5 , 2	200	400	2.30	9.8	4.8
SMAR0540-39N	39	5 , 2	200	400	2.20	10.0	4.8
SMAR0540-43N	43	5 , 2	200	400	2.20	10.8	4.4
SMAR0540-47N	47	5 , 2	200	400	2.20	11.3	4.4
SMAR0550-47N	47	5 , 2	230	400	1.87	6.35	4.9
SMAR0550-68N	68	5 , 2	230	400	2.13	8.60	5.5
SMAR0550-82N	82	5 , 2	230	400	1.79	9.40	5.6
SMAR0570-90N	90	5 , 2	140	50	1.15	5.50	5.0
SMAR0570-110	110	5 , 2	140	50	1.00	6.50	5.7
SMAR0570-130	130	5 , 2	140	50	1.00	7.50	5.4
SMAR0570-160	160	5 , 2	140	50	1.00	8.25	5.7
SMAR0570-180	180	5 , 2	140	50	1.10	9.50	5.0
SMAR0570-220	220	5 , 2	140	50	1.00	11.0	5.0
SMAR0570-270	270	5 , 2	140	50	0.80	12.5	4.3
SMAR0570-300	300	5 , 2	140	50	0.72	13.8	3.7
SMAR0580-330	330	5 , 2	180	50	0.66	12.5	4.7
SMAR0580-360	360	5 , 2	180	50	0.62	13.5	4.5
SMAR0580-390	390	5 , 2	180	50	0.59	14.5	4.4
SMAR0580-430	430	5 , 2	180	50	0.55	15.5	4.2
SMAR0580-500	500	5 , 2	180	50	0.50	16.5	4.3

* Custom designs are available upon requested.

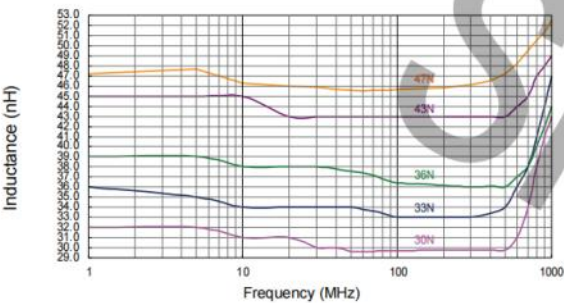
Note :

1. Inductance measured at 50MHz&400MHz, 0.1Vrms, 0 A using HP4287A LCR meter or equivalent with 16193A test fixture.
2. Q measured at 400MHz, using HP4291B LCR meter or equivalent.
3. SRF measured using HP8753 network analyzer and SMD test fixture.
4. Electrical specification at 25°C ambient.
5. Resistance to soldering heat : Max three 40s reflows at 260°C, parts cooled to room temperature between cycles.
6. Moisture Sensitivity Level (MSL) 1

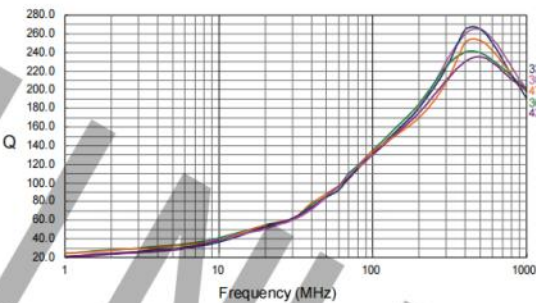
ELECTRICAL CHARACTERISTIC CURVE :

SMAR0540

Inductance vs. Frequency

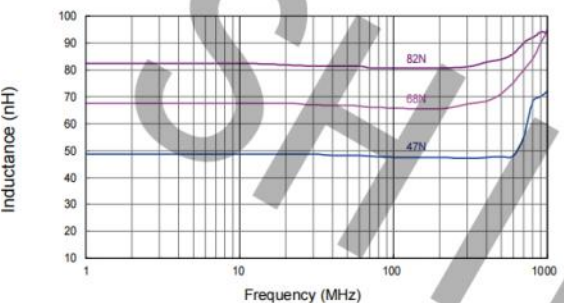


Typical Q vs. Frequency

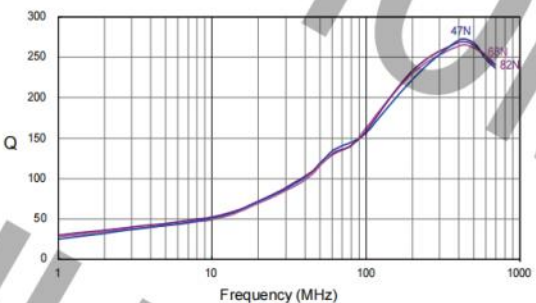


SMAR0550

Inductance vs. Frequency

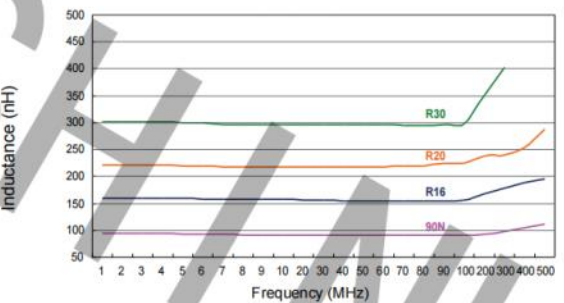


Typical Q vs. Frequency

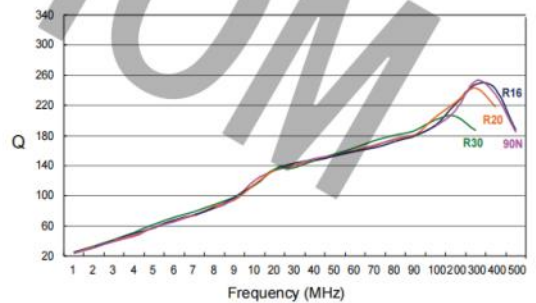


SMAR0570

Inductance vs. Frequency

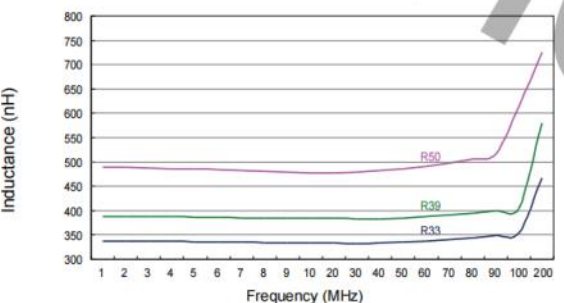


Typical Q vs. Frequency

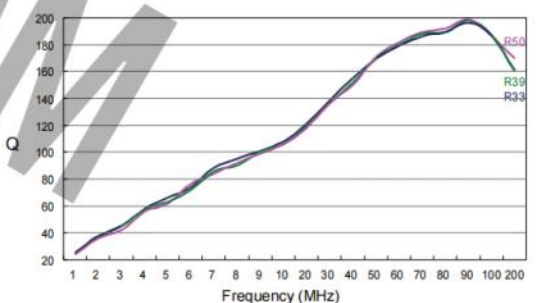


SMAR0580

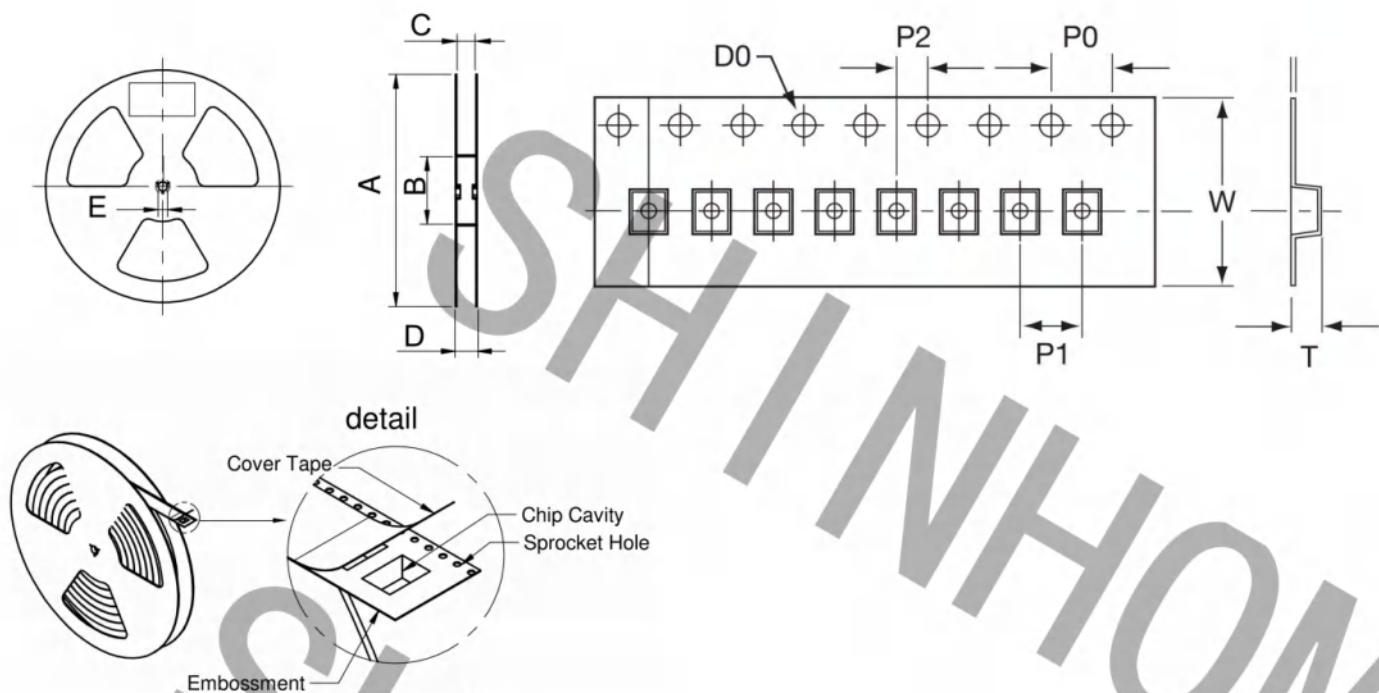
Inductance vs. Frequency



Typical Q vs. Frequency



PACKAGING DIAGRAM



Parts per reel			Reel dimensions (mm)					Tape dimensions (mm)					
Part number	7"(178mm)	13"(330mm)	A	B	C	D	E	W	D0	P0	P1	P2	T
SMAR0540-27N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-30N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-33N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-36N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-39N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-43N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0540-47N	600	2500	178/330	60/100	12.4	16.4	13	12	1.5	4	8	2	3.05
SMAR0550-47N	500	750	178/330	60/100	12.4	16.4	13	16	1.5	4	12	2	4.05
SMAR0550-68N	500	750	178/330	60/100	12.4	16.4	13	16	1.5	4	12	2	4.05
SMAR0550-82N	500	750	178/330	60/100	12.4	16.4	13	16	1.5	4	12	2	4.05
SMAR0570-90N	/	750	178/330	60/100	16.4	20.4	13	16	1.5	4	12	2	6.00
SMAR0570-110	/	750	178/330	60/100	16.4	20.4	13	16	1.5	4	12	2	6.00
SMAR0570-130	/	750	178/330	60/100	16.4	20.4	13	16	1.5	4	12	2	6.00
SMAR0570-160	/	750	178/330	60/100	16.4	20.4	13	16	1.5	4	12	2	6.00
SMAR0570-180	/	750	178/330	60/100	16.4	20.4	13	16	1.5	4	12	2	6.00
SMAR0570-220	/	750	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	6.00
SMAR0570-270	/	750	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	6.00
SMAR0570-300	/	750	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	6.00
SMAR0580-330	/	600	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	7.00
SMAR0580-360	/	600	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	7.70
SMAR0580-390	/	600	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	7.70
SMAR0580-430	/	600	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	7.70
SMAR0580-500	/	600	178/330	60/100	24.4	28.4	13	24	1.5	4	12	2	7.50