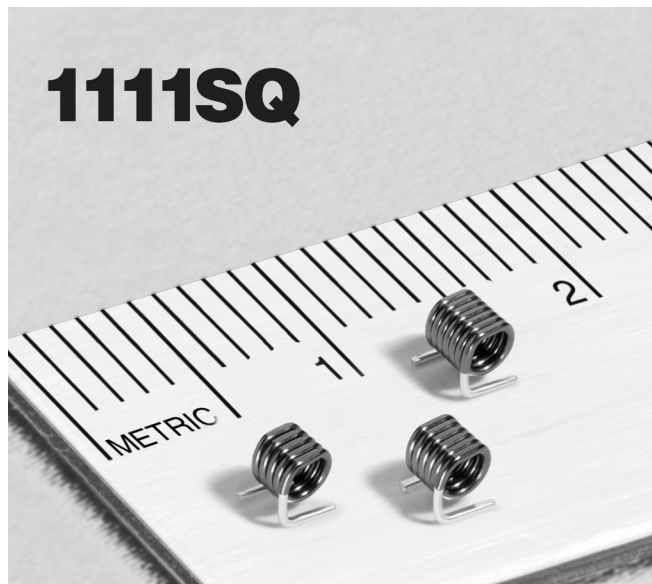


NEW!

Square Air Core Inductors – 1111SQ



- Excellent Q factors – 210 at 400 MHz!
- Inductance values from 27 to 47 nH
- Flat top and bottom for reliable pick and place and mechanical stability

Terminations RoHS compliant tin-silver over copper

Environment RoHS compliant, halogen free

Weight 34 – 50 mg

Ambient temperature –40°C to +125°C with Irms current, +125°C to +145°C with derated current

Storage temperature Component: –40°C to +145°C.
Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Temperature Coefficient of Inductance (TCL) +5 to +70 ppm/°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

One per billion hours / one billion hours, calculated per Telcordia SR-332

Packaging 600/7" reel; 2500/13" reel; Plastic tape: 12 mm wide, 0.35 mm thick, 8 mm pocket spacing, 3.05 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number ¹	Inductance ² (nH)	Percent tolerance	Q ³ typ	Test frequency (MHz)	SRF min ⁴ (GHz)	DCR (mOhm)		Irms ⁵ (A)
						typ	max	
1111SQ-27N_E_	27	5,2	200	400	2.60	7.0	8.1	5.5
1111SQ-30N_E_	30	5,2	200	400	2.40	7.2	8.3	5.5
1111SQ-33N_E_	33	5,2	200	400	2.30	8.3	9.5	4.8
1111SQ-36N_E_	36	5,2	200	400	2.30	8.5	9.8	4.8
1111SQ-39N_E_	39	5,2	200	400	2.20	8.7	10.0	4.8
1111SQ-43N_E_	43	5,2	200	400	2.20	9.4	10.8	4.4
1111SQ-47N_E_	47	5,2	200	400	2.20	9.8	11.3	4.4

1. When ordering, specify **tolerance**, **termination** and **packaging** codes:

1111SQ-47NJE C

Tolerance: G = 2% J = 5%

(Table shows stock tolerances in bold.)

Termination: E = RoHS compliant tin-silver (96.5/3.5) over copper.

Special order, added cost:

T = RoHS tin-silver-copper (95.5/4/0.5) over copper or S = non-RoHS tin-lead (63/37) over copper.

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel).

B = Less than full reel. In tape, but not machine ready.

To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (2500 parts per full reel). Factory order only, not stocked.

2. Inductance measured at specified test frequency, 0.1 Vrms, 0 A using an Agilent/HP 4286A LCR meter or equivalent with a Coilcraft CCF1191C test fixture.

3. Q measured at specified test frequency, using an Agilent/HP 4291A impedance analyzer or equivalent.

4. SRF measured using an Agilent/HP 8753 network analyzer or equivalent with a Coilcraft CCF1143 test fixture.

5. Current that causes a 20°C temperature rise from 25°C ambient.

6. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com

UK +44-1236-730595 sales@coilcraft-europe.com

Taiwan +886-2-2264 3646 sales@coilcraft.com.tw

China +86-21-6218 8074 sales@coilcraft.com.cn

Singapore + 65-6484 8412 sales@coilcraft.com.sg

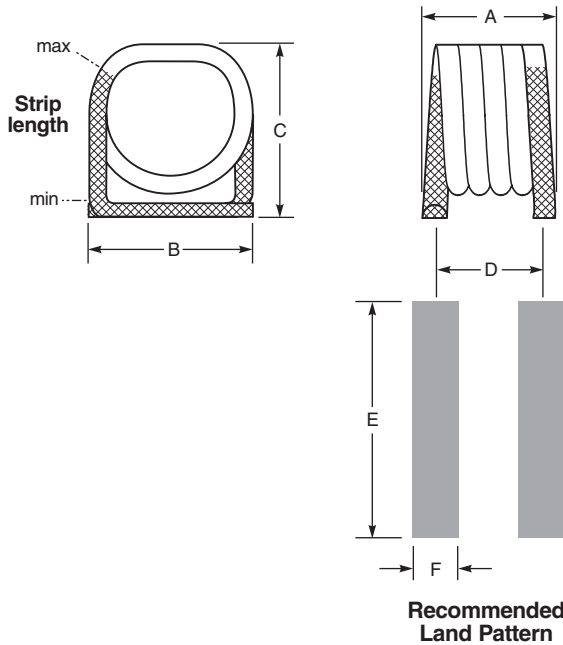
Document 990-1 Revised 3/25/13

© Coilcraft Inc. 2013

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

NEW!

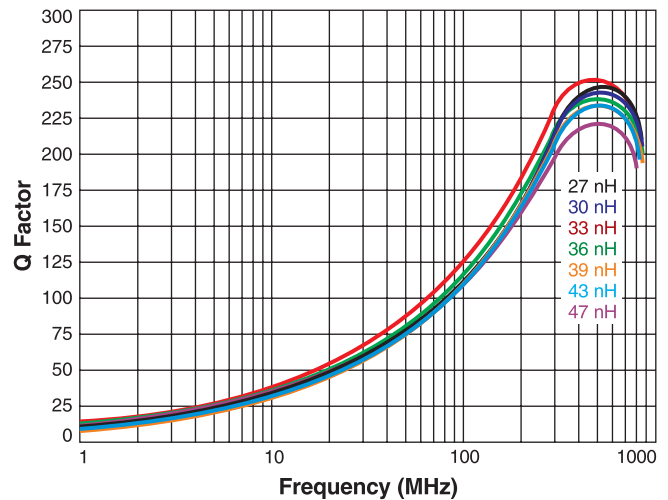
Square Air Core Inductors – 1111SQ



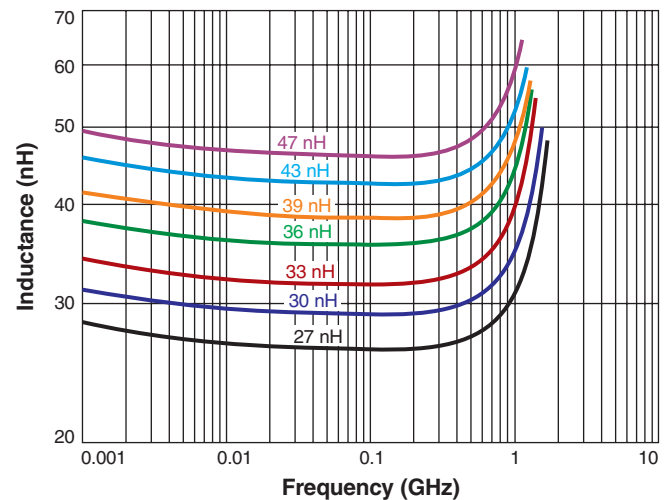
Part number	A	B	C	D	E	F
1111SQ-27N	0.105±0.010 2,67 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.090 2,29	0.120 3,05	0.040 1,02
1111SQ-30N	0.105 ±0.010 2,67 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.090 2,29	0.120 3,05	0.040 1,02
1111SQ-33N	0.115 ±0.010 2,92 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.100 2,54	0.120 3,05	0.040 1,02
1111SQ-36N	0.115 ±0.010 2,92 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.100 2,54	0.120 3,05	0.040 1,02
1111SQ-39N	0.115 ±0.010 2,92 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.100 2,54	0.120 3,05	0.040 1,02
1111SQ-43N	0.130 ±0.010 3,30 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.110 2,79	0.120 3,05	0.040 1,02
1111SQ-47N	0.130 ±0.010 3,30 ±0,254	0.105 ±0.015 2,67 ±0,127	0.110 ±0.005 2,79 ±0,127	0.110 2,79	0.120 3,05	0.040 1,02

All dimensions are in $\frac{\text{inches}}{\text{mm}}$.

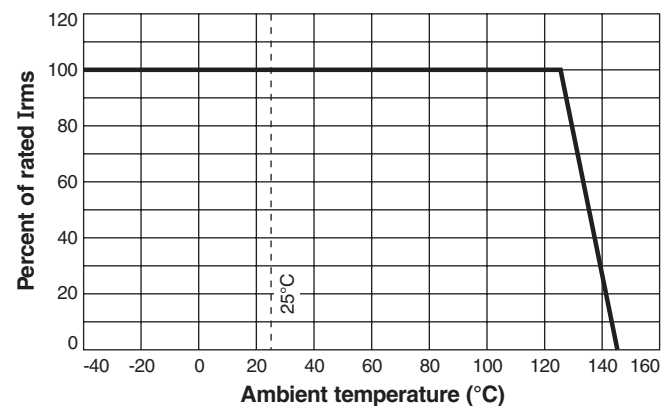
Typical Q vs Frequency



Typical L vs Frequency



Irms Derating



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
 UK +44-1236-730595 sales@coilcraft-europe.com
 Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
 China +86-21-6218 8074 sales@coilcraft.com.cn
 Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 720-2 Revised 03/25/13

© Coilcraft Inc. 2013

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9