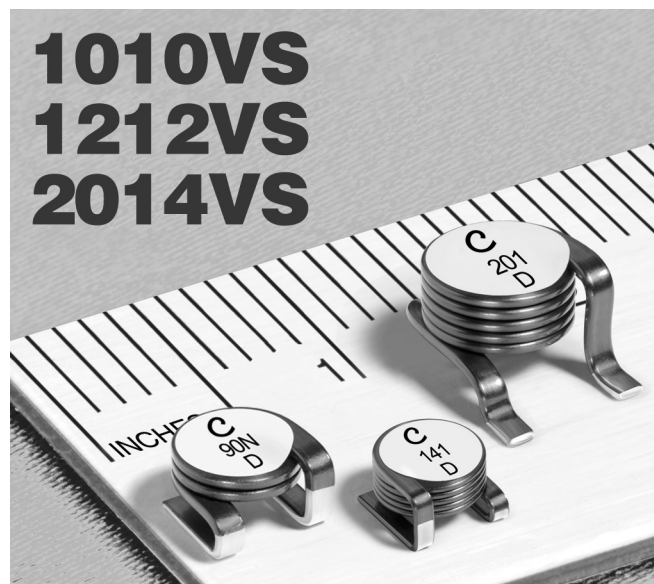



NEW!

High Frequency, High Current Power Inductors



- Excellent Q factors – up to 230 at 400 MHz!
- Current handling as high as 57 Amps
- Inductance values from 22 to 257 nH

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver over copper

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)

Mean Time Between Failures (MTBF) 1 billion hours

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

Part number ¹	Inductance ² ±20% (nH)	Q ³ typ	Q test freq (MHz)	SRF typ ⁴ (MHz)	DCR (mOhm)		Irms (A) ⁵		Weight (g)
					typ	max	20°C rise	40°C rise	
1010VS-23NME_	23.5	95	100	923	1.05	1.20	18.0	26.0	0.49
1010VS-46NME_	46.5	150	100	526	1.50	1.62	17.9	25.5	0.65
1010VS-79NME_	79.0	135	50	386	1.95	2.11	17.8	25.0	0.82
1010VS-111ME_	111	150	50	382	2.53	2.73	15.7	22.0	0.98
1010VS-141ME_	146	140	50	433	3.08	3.33	14.1	19.3	1.23
1212VS-22NME_	22.0	200	100	918	0.48	0.55	40.5	57.0	2.20
1212VS-42NME_	42.0	195	50	557	0.70	0.77	38.0	52.0	2.70
1212VS-66NME_	66.0	200	50	480	0.90	0.99	35.0	48.0	3.20
1212VS-90NME_	90.0	175	50	444	1.10	1.21	33.0	45.0	3.70
1212VS-111ME_	117	165	50	399	1.30	1.43	32.0	44.0	4.20
2014VS-33NME_	33	230	100	620	0.63	0.74	32.5	43.0	1.60
2014VS-66NME_	66	200	50	413	0.90	1.00	31.5	42.5	2.30
2014VS-111ME_	108	210	50	320	1.20	1.34	31.0	42.0	3.10
2014VS-151ME_	155	205	50	296	1.44	1.60	29.4	39.7	3.60
2014VS-201ME_	202	200	50	262	1.70	1.82	26.3	35.8	4.40
2014VS-251ME_	257	200	50	230	1.94	2.15	24.9	34.5	5.00

1. When ordering, specify **packaging** code:

2014VS-251MEC

- Packaging:** C = 7" machine-ready reel. EIA-481 embossed plastic tape.
- 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. Factory order only, not stocked.

2. Inductance measured at 1.0 MHz, 0.1 Vrms, 0 A using an Agilent/HP HP4291A impedance analyzer with an Agilent/HP 16193A test fixture or equivalents.
3. Q measured at the specified frequency using an Agilent/HP 4291A impedance analyzer or equivalent.
4. SRF measured using an Agilent/HP 8753 network analyzer or equivalent and a Coilcraft CCF1199 test fixture
5. Current that causes the specified 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 893-1 Revised 01/23/13

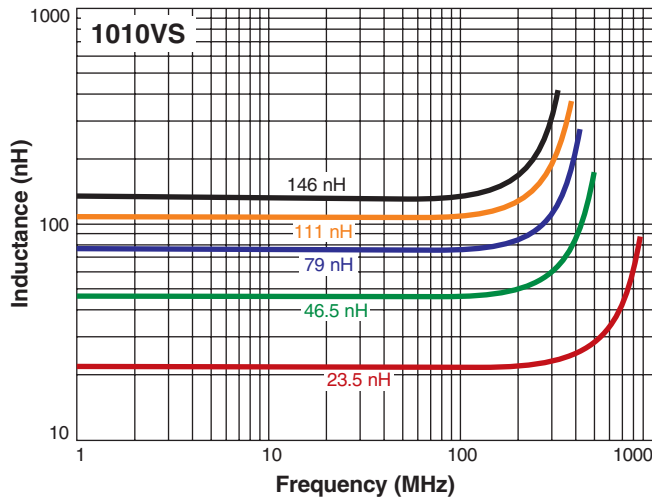
© Coilcraft Inc. 2013

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.

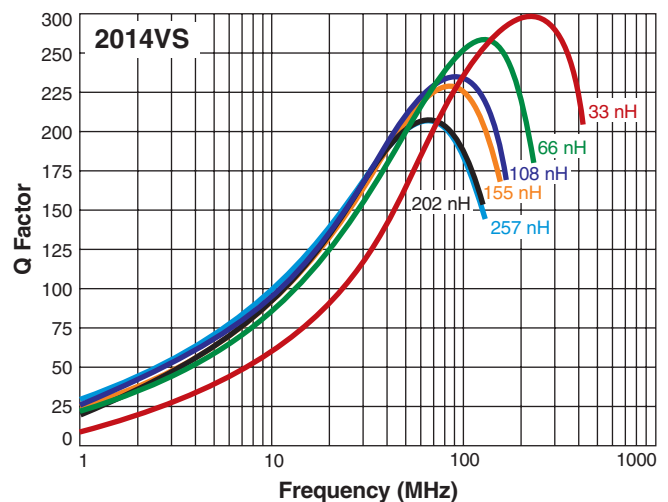
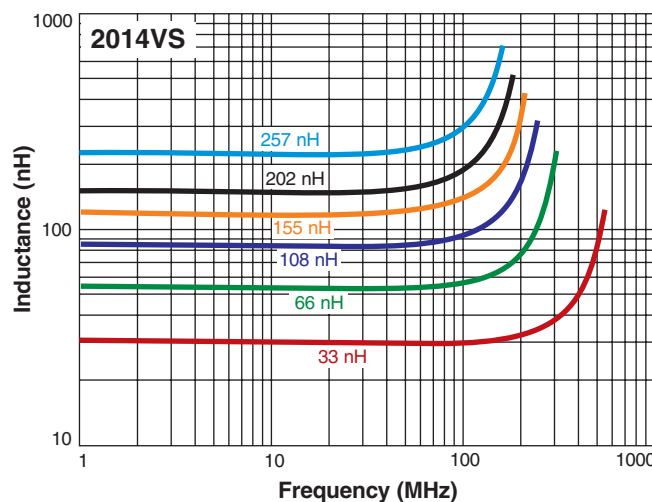
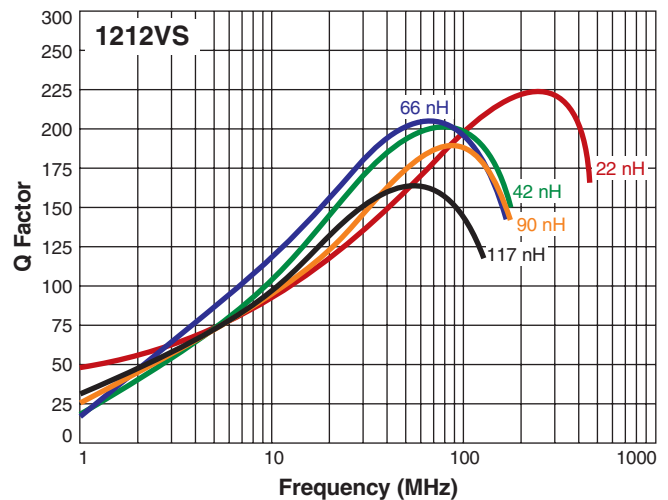
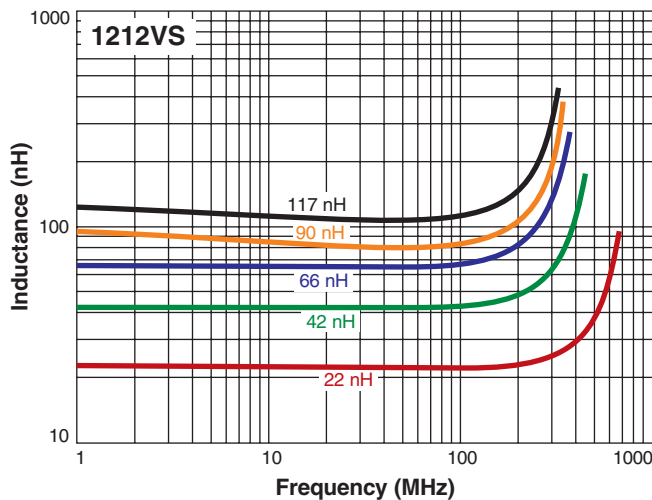
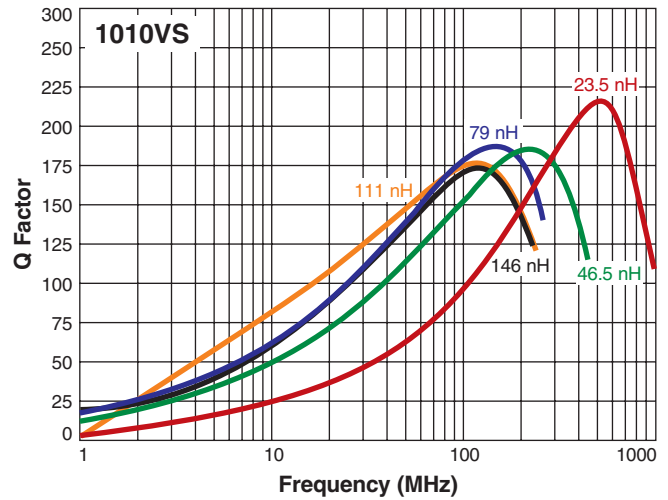

NEW!

High Frequency, High Current Power Inductors – 1010VS, 1212VS, 2014VS

L vs Frequency



Q vs Frequency


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 893-2 Revised 01/23/13

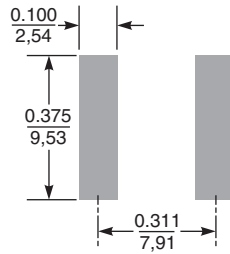
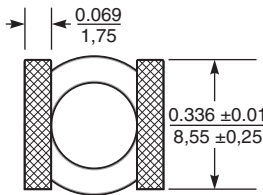
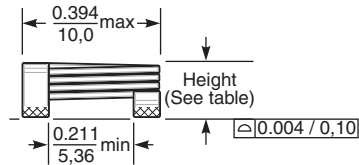
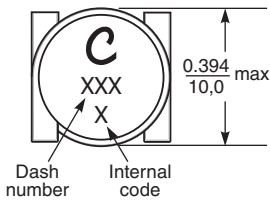
© Coilcraft Inc. 2013

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!

High Frequency, High Current Power Inductors – 1010VS, 1212VS, 2014VS

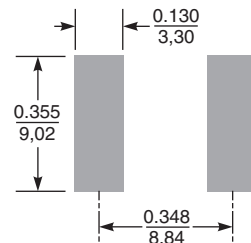
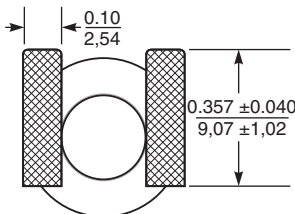
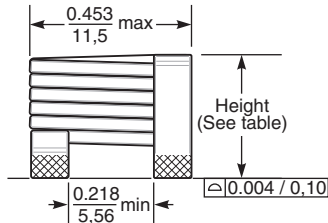
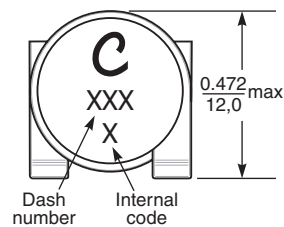
1010VS



Recommended Land Pattern

Part number	Height		Weight (g)
	inches	mm	
1010VS-23N	0.142	3.60	0.49
1010VS-46N	0.161	4.10	0.65
1010VS-79N	0.189	4.80	0.82
1010VS-111	0.220	5.60	0.98
1010VS-141	0.240	6.10	1.23

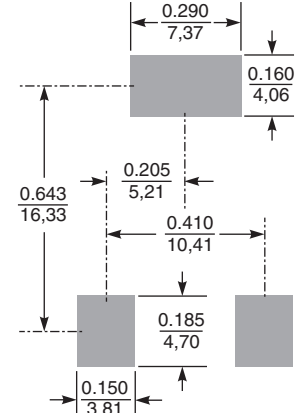
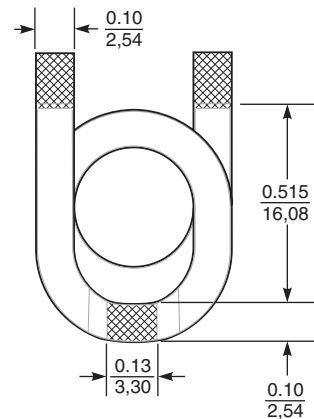
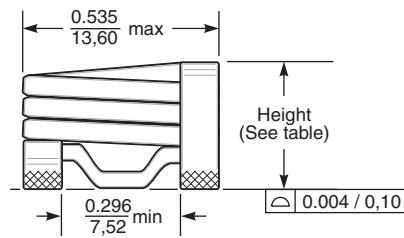
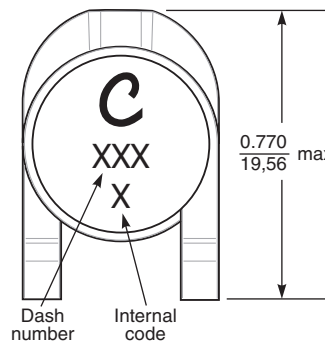
1212VS



Recommended Land Pattern

Part number	Height		Weight (g)
	inches	mm	
1212VS-22N	0.260	6.60	2.2
1212VS-42N	0.299	7.60	2.7
1212VS-66N	0.346	8.80	3.2
1212VS-90N	0.409	10.4	3.7
1212VS-111	0.445	11.3	4.2

2014VS



Recommended Land Pattern

Part number	Height		Weight (g)
	inches	mm	
2014VS-33N	0.236	5.99	1.6
2014VS-66N	0.279	7.09	2.3
2014VS-111	0.327	8.31	3.1
2014VS-151	0.362	9.19	3.6
2014VS-201	0.409	10.4	4.4
2014VS-251	0.449	11.4	5.0

Packaging

1010VS-23N 250/7" reel ; 1000/13" reel ; 3.81 mm pocket depth

1010VS-46N 250/7" reel ; 900/13" reel ; 4.32 mm pocket depth

1010VS-79N 200/7" reel ; 800/13" reel ; 5.05 mm pocket depth

Plastic tape: 24 mm wide, 0.35 mm thick, 16 mm pocket spacing

1010VS-111 175/7" reel ; 700/13" reel ; 5.84 mm pocket depth

1010VS-141 150/7" reel ; 600/13" reel ; 6.35 mm pocket depth

Plastic tape: 24 mm wide, 0.40 mm thick, 16 mm pocket spacing

1212VS-22N 450/13" reel ; 8.86 mm pocket depth

1212VS-42N 400/13" reel ; 7.87 mm pocket depth

1212VS-66N 350/13" reel ; 9.02 mm pocket depth

1212VS-90N 300/13" reel ; 10.67 mm pocket depth

1212VS-111 250/13" reel ; 11.68 mm pocket depth

Plastic tape: 24 mm wide, 0.50 mm thick, 20 mm pocket spacing

2014VS-33N 500/13" reel ; 6.22 mm pocket depth

2014VS-66N 450/13" reel ; 7.37 mm pocket depth

2014VS-111 400/13" reel ; 8.56 mm pocket depth

2014VS-151 350/13" reel ; 9.45 mm pocket depth

2014VS-201 350/13" reel ; 10.67 mm pocket depth

2014VS-251 250/13" reel ; 11.68 mm pocket depth

Plastic tape: 44 mm wide, 0.50 mm thick, 20 mm pocket spacing

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



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 893-3 Revised 01/23/13

© 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