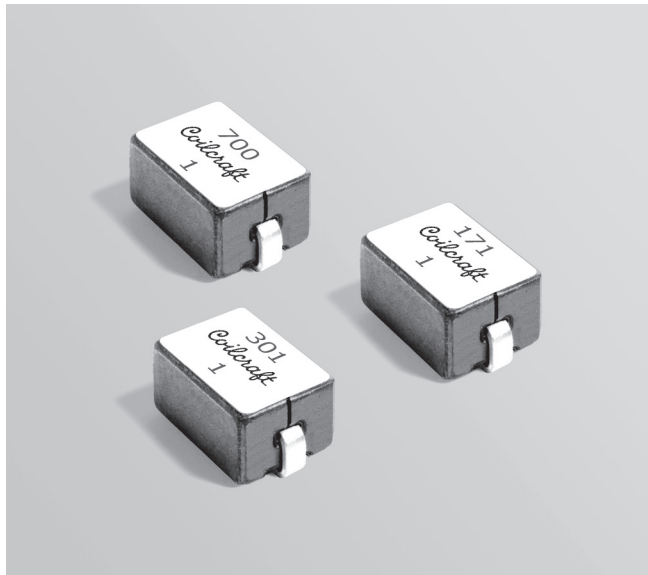


**NEW!**

Shielded Power Inductors – SLC1175



The SLC1175 is designed for high-speed switch mode applications requiring low inductance and very high saturation current ratings. While requiring a mere quarter square inch of board space, it can handle saturating current over 100 A.

This series offers several inductance values not available in other high current series.

These shielded inductors are ideal for use in multi-phase VRM/VRD regulators and high current/high frequency DC/DC converters.

Part number ¹	Inductance ² ±20% (nH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
		min	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SLC1175-700ME	70	0.228	0.252	179	83	100	>100	25.5	35.5
SLC1175-121ME	120	0.228	0.252	144	80	84	88	25.5	35.5
SLC1175-151ME	150	0.228	0.252	95	64	70	76	25.5	35.5
SLC1175-171ME	170	0.228	0.252	73	54	60	63	25.5	35.5
SLC1175-201ME	200	0.228	0.252	64	48	53	55	25.5	35.5
SLC1175-231ME	230	0.228	0.252	61	41	46	49	25.5	35.5
SLC1175-271ME	270	0.228	0.252	52	32	37	40	25.5	35.5
SLC1175-301ME	300	0.228	0.252	48	27	31	34	25.5	35.5

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

SLC1175-301MEC

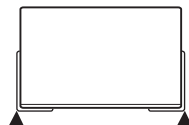
Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (150 per full reel).

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. Factory order only, not stocked (700 per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4284.

3. DCR is measured between the two points indicated below.



▲ Points used for measuring DCR

4. SRF measured using an Agilent/HP 8753ES network analyzer or equivalent.

5. DC current at which the inductance drops from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

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

Core material Ferrite

Environment RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over copper. Other terminations available at additional cost.

Weight 2.19 – 2.30 g

Ambient temperature –40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: –40°C to +125°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

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

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

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 150/7" reel, 700/13" reel; Plastic tape: 24 mm wide, 0.4 mm thick, 12 mm pocket spacing, 7.62 mm pocket depth

PCB washing Only pure water or alcohol recommended



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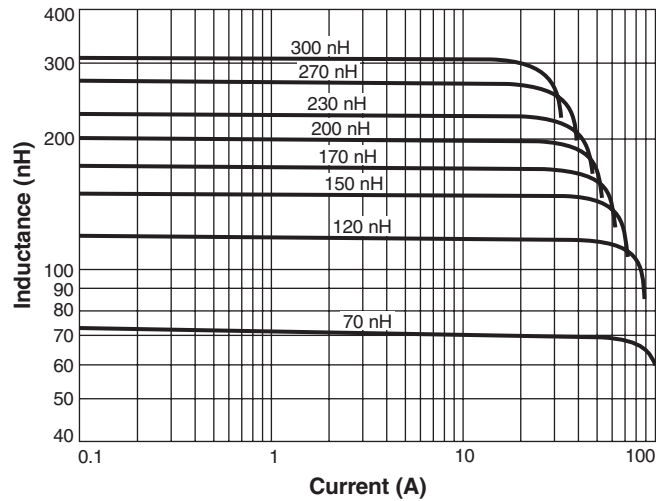
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

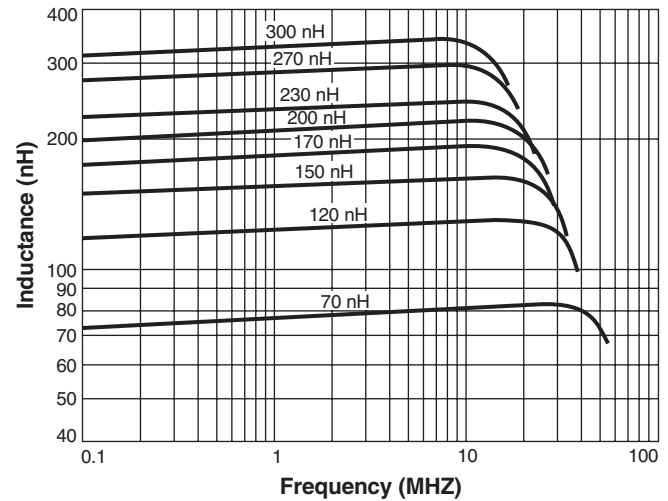

NEW!

SMT Power Inductors – SLC1175 Series

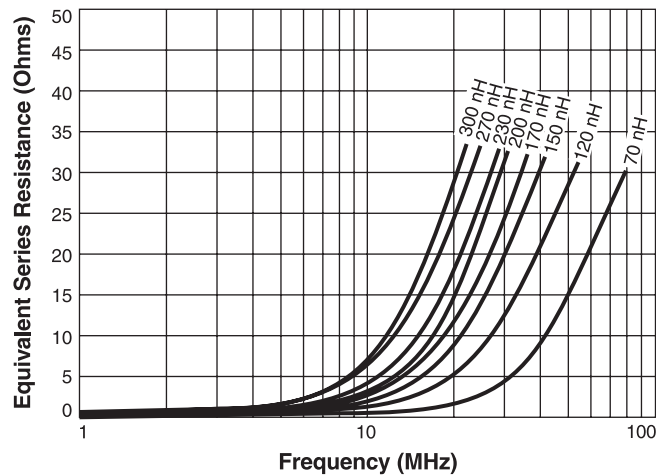
L vs Current



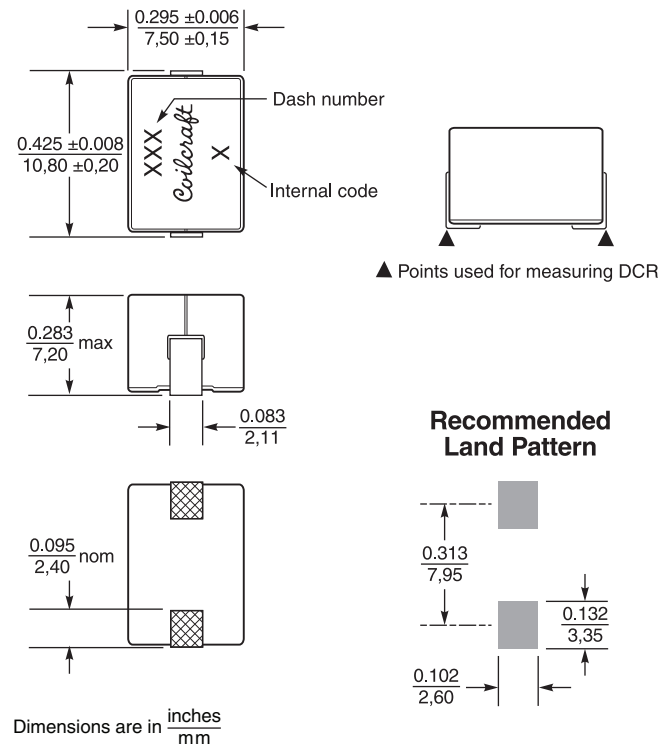
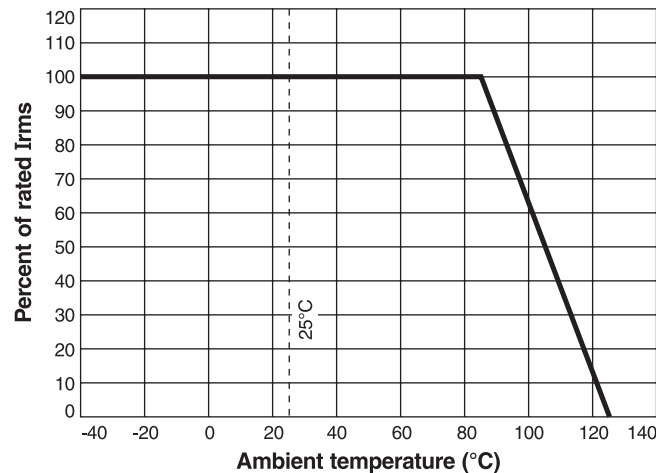
L vs Frequency



ESR vs Frequency



Irms Derating



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

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