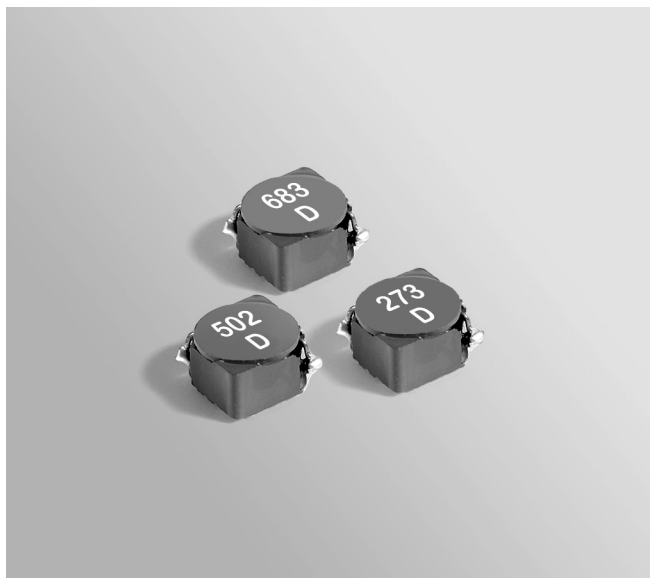




Shielded Power Inductors – MSS7341



- 6.6 × 6.6 mm footprint; 4.1 mm high shielded inductors
- Low DCR and excellent current handling

Designer's Kit C385 contains 3 each of all values.

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

Terminations RoHS compliant matte tin over nickel over phos bronze (current production) or gold over nickel over phos bronze (prior production). Other terminations available at additional cost.

Weight: 0.61 – 0.67 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.

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 1200/13" reel; Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 4.5 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² (µH)	DCR (Ohms)		SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
		typ	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
MSS7341-332NL_	3.3 ±30%	0.014	0.018	85	2.74	3.28	3.72	3.95	5.00
MSS7341-502NL_	5.0 ±30%	0.018	0.023	49	2.30	2.82	3.16	3.40	4.70
MSS7341-622NL_	6.2 ±30%	0.024	0.027	42	2.18	2.66	2.98	3.05	4.30
MSS7341-742NL_	7.4 ±30%	0.027	0.031	35	1.92	2.32	2.56	2.80	4.10
MSS7341-872NL_	8.7 ±30%	0.029	0.034	33	1.78	2.12	2.36	2.80	3.90
MSS7341-103ML_	10 ±20%	0.032	0.038	32	1.64	1.92	2.10	2.80	3.80
MSS7341-123ML_	12 ±20%	0.040	0.050	27	1.48	1.76	1.92	2.45	3.30
MSS7341-153ML_	15 ±20%	0.047	0.055	26	1.36	1.60	1.78	2.05	3.00
MSS7341-183ML_	18 ±20%	0.065	0.075	25	1.20	1.46	1.62	1.85	2.65
MSS7341-223ML_	22 ±20%	0.074	0.082	22	1.02	1.26	1.42	1.70	2.35
MSS7341-273ML_	27 ±20%	0.091	0.109	19	1.00	1.14	1.22	1.50	2.10
MSS7341-333ML_	33 ±20%	0.104	0.124	17	0.91	1.04	1.16	1.50	1.95
MSS7341-393ML_	39 ±20%	0.115	0.130	15	0.85	1.01	1.12	1.50	1.90
MSS7341-473ML_	47 ±20%	0.127	0.155	14	0.74	0.92	1.00	1.50	1.85
MSS7341-563ML_	56 ±20%	0.174	0.202	11	0.68	0.80	0.87	1.25	1.60
MSS7341-683ML_	68 ±20%	0.236	0.250	9.6	0.62	0.73	0.80	1.00	1.35
MSS7341-823ML_	82 ±20%	0.257	0.290	8.5	0.57	0.66	0.72	1.00	1.25
MSS7341-104ML_	100 ±20%	0.286	0.310	7.2	0.54	0.64	0.71	0.90	1.15
MSS7341-224ML_	220 ±20%	0.660	0.710	5.0	0.35	0.41	0.47	0.57	0.78
MSS7341-474ML_	470 ±20%	1.21	1.45	3.0	0.24	0.28	0.32	0.43	0.57
MSS7341-684KL_	680 ±10%	1.85	1.98	2.5	0.22	0.27	0.29	0.42	0.56

- Specify **termination** and **packaging** codes:

MSS7341-224MLD

Termination: L = RoHS compliant matte tin over nickel over phos bronze (current production) or gold over nickel over phos bronze (prior production)

Special order:

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

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (1200 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 D instead.

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using a Coilcraft SMD-A fixture in an Agilent/HP 4263B LCR meter.
 - SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.
 - DC current at which the inductance drops the specified amount from its value without current.
 - Current that causes the specified temperature rise from 25°C ambient.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

SPICE models ON OUR WEB SITE



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 383-1 Revised 11/04/11

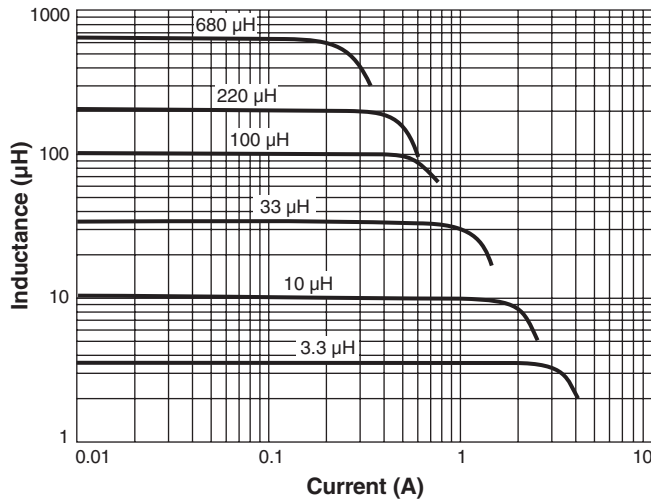
© Coilcraft Inc. 2012

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

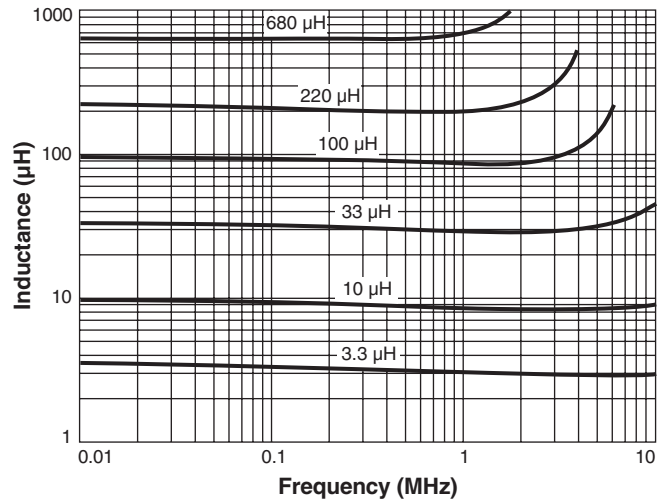


Shielded Power Inductors – MSS7341

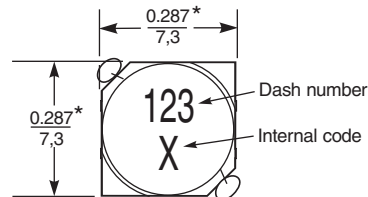
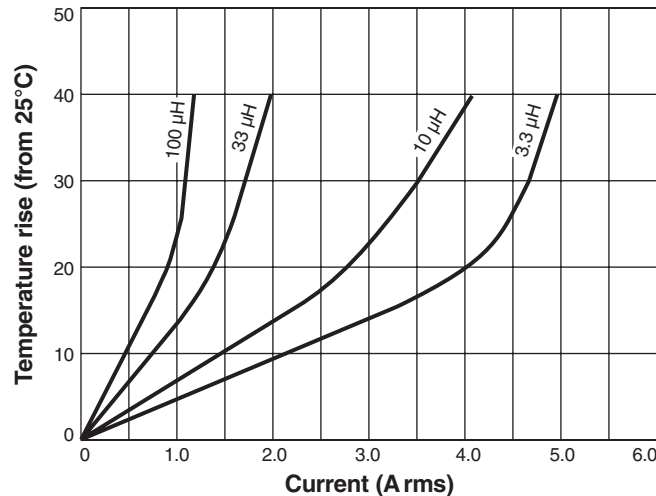
Typical L vs Current



Typical L vs Frequency

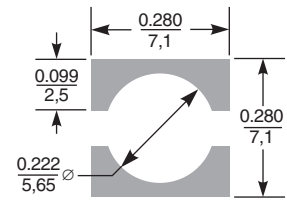
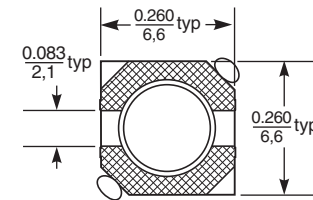
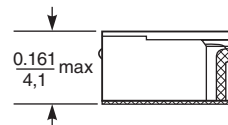


Typical Temperature Rise vs Current



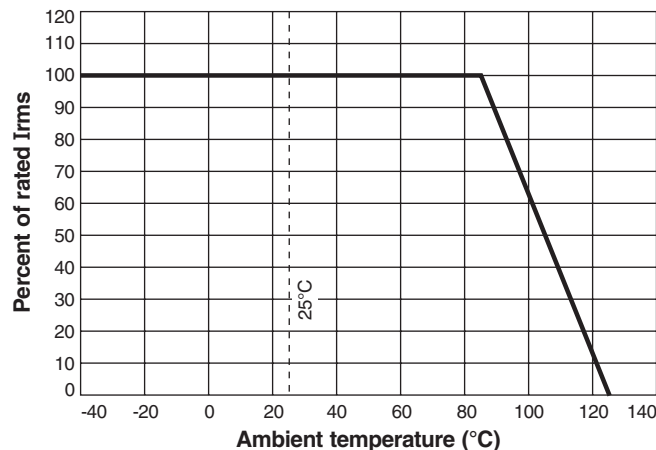
Parts manufactured prior to Sept. 2007 were marked with only the dash number.

*Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.02 in / 0,51 mm.



Recommended Land Pattern

Irms Derating



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 383-2 Revised 11/04/11

© Coilcraft Inc. 2012

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.