

NEW!

SMT Power Inductors - MSS1278 Series



The MSS1278 Series provides high inductance and high efficiency in a rugged, low cost part.

The magnetic shielding and small footprint of these inductors allows high density mounting. The flat top ensures reliable pick and place handling.

They're ideal for use in DC-DC converters, LCD panels, and portable devices where low cost and high reliability are critical.

In addition to the standard values shown, Coilcraft can custom-engineer versions to meet specific applications. Free evaluation samples are available by contacting Coilcraft or on the web at www.coilcraft.com.

Part number ¹	L ² (μ H)	DCR max (Ω)	SRF ³ typ (MHz)	Isat ⁴ (A)	Irms ⁵	
					20°C rise (A)	40°C rise (A)
MSS1278-142MX	1.4±20%	0.0105	80.0	11.50	7.00	10.00
MSS1278-472MX	4.7±20%	0.020	30.0	7.00	4.30	6.20
MSS1278-562MX	5.6±20%	0.023	24.0	6.80	4.30	6.20
MSS1278-682MX	6.8±20%	0.024	21.0	6.40	4.20	6.00
MSS1278-822MX	8.2±20%	0.028	20.0	5.80	4.10	5.90
MSS1278-103MX	10±20%	0.030	17.0	5.40	4.00	5.70
MSS1278-123MX	12±20%	0.032	15.0	4.90	3.70	5.20
MSS1278-153MX	15±20%	0.038	13.0	4.50	3.50	4.90
MSS1278-183MX	18±20%	0.043	12.0	4.00	3.00	4.50
MSS1278-223MX	22±20%	0.050	11.0	3.60	2.90	4.00
MSS1278-273MX	27±20%	0.060	10.0	3.30	2.60	3.60
MSS1278-333MX	33±20%	0.080	9.5	3.00	2.30	3.10
MSS1278-393MX	39±20%	0.085	8.5	2.70	2.10	3.00
MSS1278-473MX	47±20%	0.10	7.5	2.50	2.00	2.90
MSS1278-563MX	56±20%	0.11	7.0	2.30	1.90	2.70
MSS1278-683MX	68±20%	0.12	6.5	2.10	1.80	2.60
MSS1278-823MX	82±20%	0.15	5.0	1.90	1.60	2.30
MSS1278-104MX	100±20%	0.18	4.5	1.70	1.50	2.20
MSS1278-124KX	120±10%	0.23	4.3	1.55	1.40	1.90
MSS1278-154KX	150±10%	0.27	4.1	1.40	1.30	1.80
MSS1278-184KX	180±10%	0.30	4.0	1.30	1.20	1.70
MSS1278-224KX	220±10%	0.40	3.4	1.15	1.00	1.60
MSS1278-274KX	270±10%	0.53	3.1	1.00	0.90	1.20
MSS1278-334KX	330±10%	0.60	2.9	0.90	0.80	1.00
MSS1278-394KX	390±10%	0.68	2.7	0.85	0.75	1.00
MSS1278-474KX	470±10%	0.88	2.2	0.78	0.66	0.90
MSS1278-564KX	560±10%	0.96	2.0	0.72	0.60	0.80
MSS1278-684KX	680±10%	1.30	1.7	0.65	0.55	0.75
MSS1278-824KX	820±10%	1.50	1.4	0.60	0.50	0.70
MSS1278-105KX	1000±10%	1.70	1.3	0.55	0.48	0.68

1. Specify **packaging** code:

MSS1278-105KXD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (500 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 tested at 100 kHz, 0.1 Vrms, 0 Adc on Agilent/HP 4284A LC meter or equivalent.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Average current for temperature rise from 25°C ambient.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

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Specifications subject to change without notice. Document 322-1 Revised 04/30/03

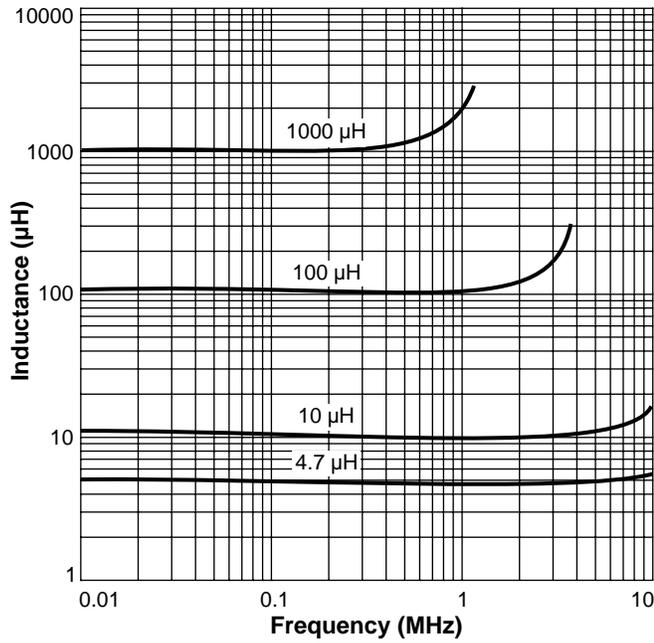
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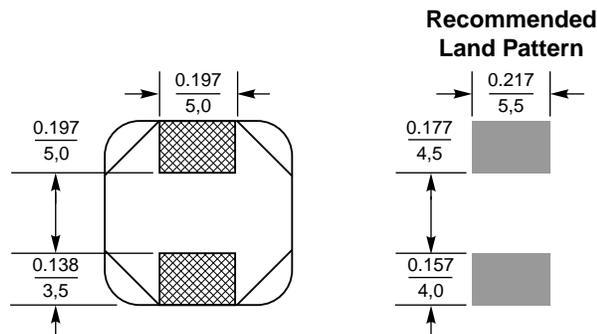
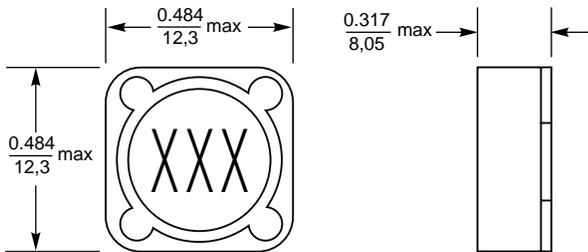
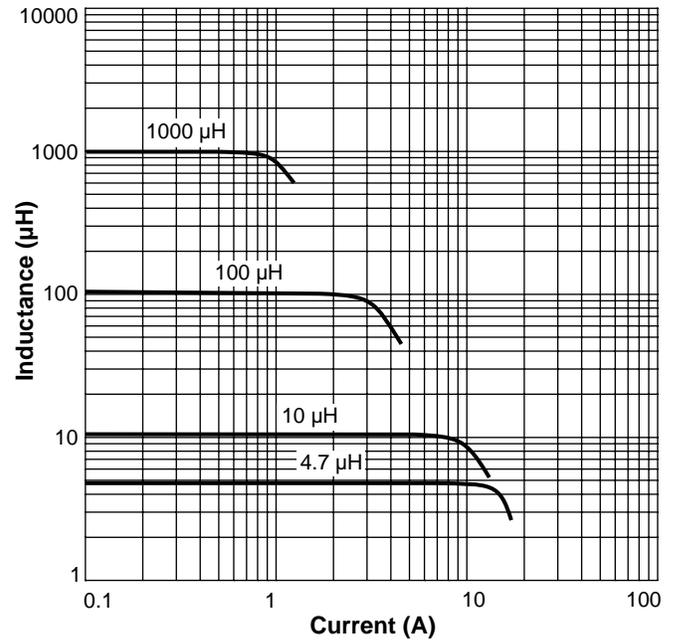
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Typical L vs Frequency



Typical L vs Current



Parts/reel: 13" 500 Tape width: 24 mm
For packaging data see Tape and Reel Specifications section.

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