

SMT Power Inductor - MOS6020 Series



Measuring a mere 2 mm high, the MOS6020 family of surface mount power inductors offers exceptionally low DC resistance and excellent current handling.

These magnetically shielded inductors are extremely space-efficient, with a 6 × 7.1 mm footprint. They are available in inductance values from 2.2 μ H to 470 μ H with saturation current ratings up to 2.15 Amps. Custom versions up to 4.7 mH are also available.

Free evaluation samples are available by contacting Coilcraft or ordering them on-line at www.coilcraft.com.

Part number ¹	L $\pm 20\%$ ² (μ H)	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms ⁵ (A)
MOS6020-222MX_	2.2	0.035	110	2.15	4.1
MOS6020-332MX_	3.3	0.046	85	1.80	3.6
MOS6020-472MX_	4.7	0.050	60	1.50	3.1
MOS6020-682MX_	6.8	0.078	55	1.28	2.7
MOS6020-103MX_	10	0.092	36	1.00	2.2
MOS6020-153MX_	15	0.130	30	0.85	1.8
MOS6020-223MX_	22	0.182	22	0.72	1.4
MOS6020-333MX_	33	0.290	20	0.58	1.1
MOS6020-473MX_	47	0.420	16	0.49	0.7
MOS6020-683MX_	68	0.520	15	0.40	0.63
MOS6020-104MX_	100	0.800	13	0.33	0.56
MOS6020-154MX_	150	1.28	10	0.27	0.49
MOS6020-224MX_	220	2.00	8	0.22	0.42
MOS6020-334MX_	330	2.84	7	0.18	0.35
MOS6020-474MX_	470	4.40	5	0.15	0.29

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

MOS6020-104MX C

Packaging: C = 7" 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 C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284A or equivalent.

3. SRF measured using Agilent/HP 8753D network analyzer.

4. DC current at which the inductance drops 30% (typ) from its value without current.

5. Average current for 40°C temperature rise from 25°C ambient.

6. Operating temperature range -40°C to +85°C.

7. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

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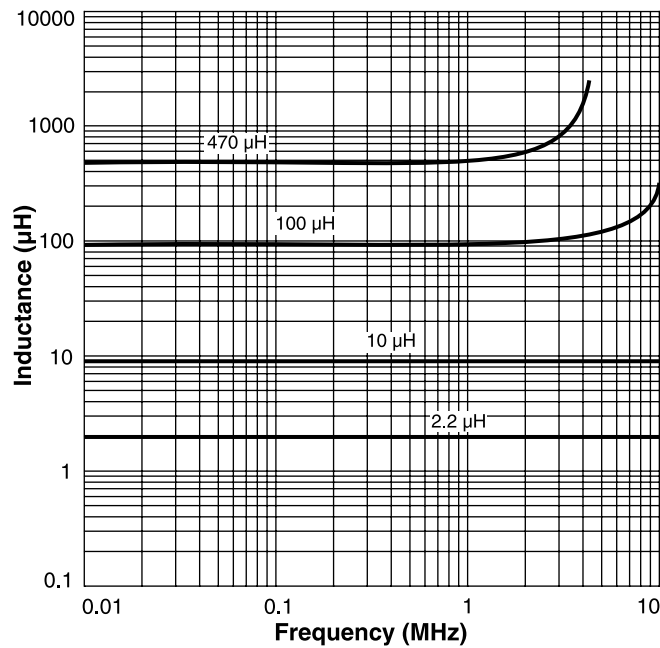
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1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

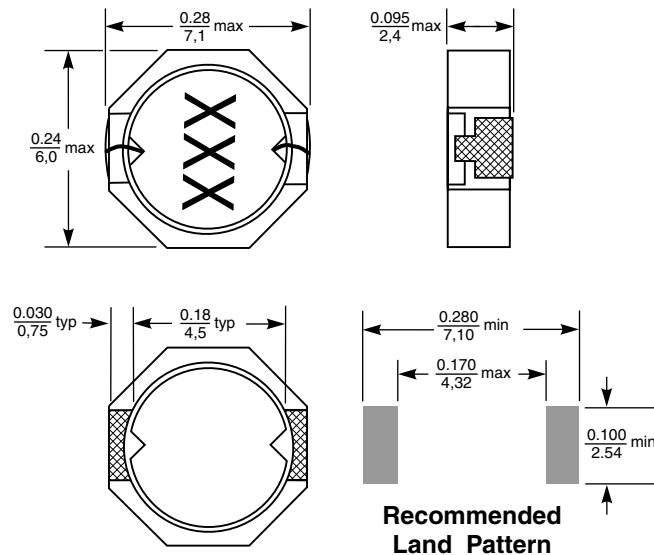
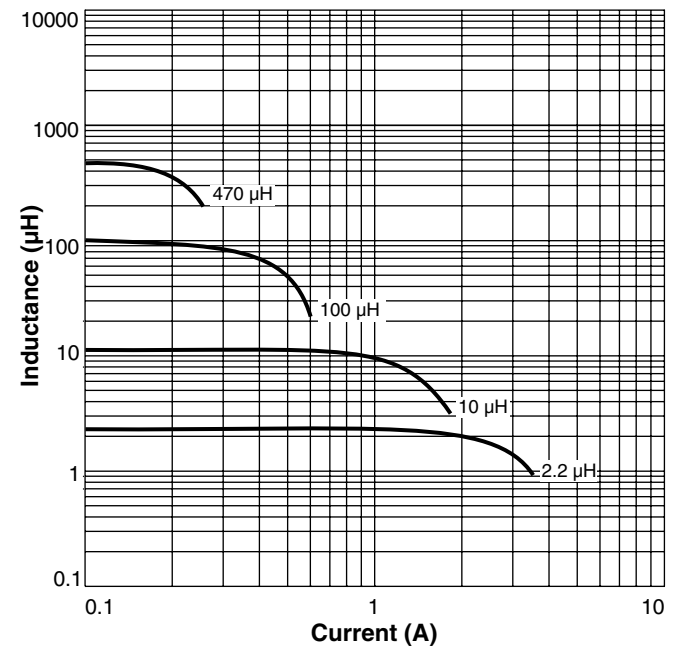
E-mail info@coilcraft.com Web <http://www.coilcraft.com>

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Typical L vs Frequency



Typical L vs Current



Tape and reel: 500/7" reel; 2000/13" reel 16 mm tape width
For packaging data see Tape and Reel Specifications section.

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