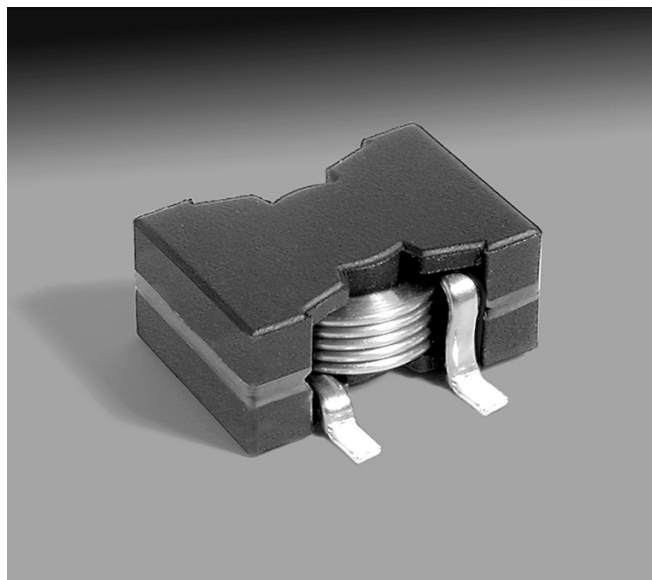


Flat Wire Power Inductor

For Maxim
MAX5051 Controller IC



Designed for Maxim's MAX5051 Power Supply Controller, the A9860-B offers exceptional electrical performance.

Flat wire windings offers extremely low DC resistance and high saturation current ratings. The flat core provides excellent heat dissipation.

Core material Ferrite

Terminations Tin-silver over copper

Weight 11.4 g

Ambient temperature -40°C to +85°C with (40°C rise) Irms current.

Maximum part temperature +125°C (ambient + temp rise). [Derating](#).

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 200/13" reel; Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 9.6 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	L @ 0A ² ±20% (μH)	L @ 15.0A ² ±20% (μH)	DCR max (mOhm)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms ⁵ (A)
A9860-B_	2.70	2.70	3.0	63.0	20.0	15.0

1. Please specify **termination** and **packaging** codes:

A9860-BD

Packaging: D = 13" machine-ready reel EIA-481 embossed plastic tape (200 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.

2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using a Coilcraft SMD-D fixture in an Agilent/HP 4284A impedance analyzer.

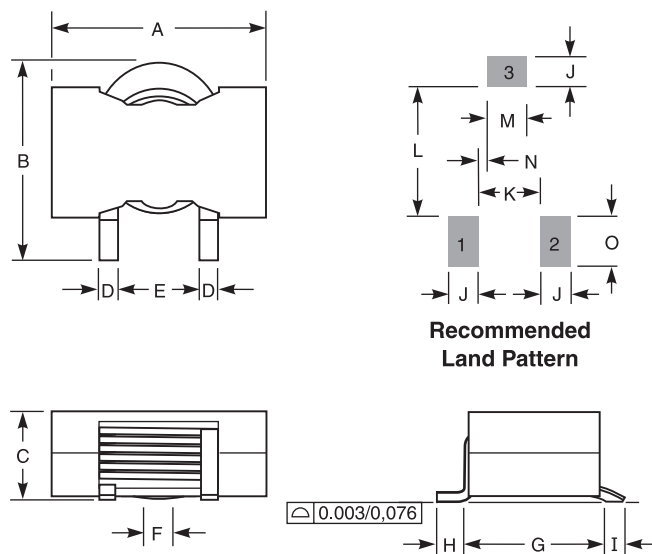
3. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.

4. DC current at which the inductance drops 10% (typ) from its value without current. [Click for temperature derating information](#).

5. Current that causes a 40°C rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. [Click for temperature derating information](#).

6. Electrical specifications at 25°C.

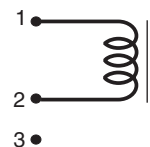
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Recommended
Land Pattern

A max	B max	C max	D	E	F	G
0.91	0.85	0.39	0.08	0.30	0.10	0.57
23,0	21,5	10,0	2,0	7,5	2,5	14,5

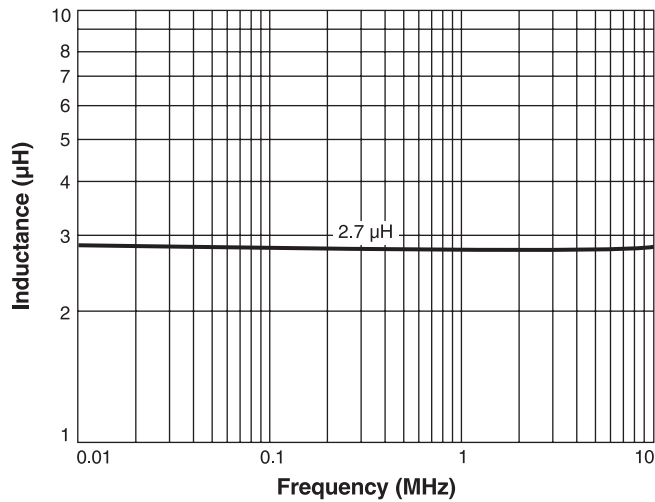
H	I	J	K	L	M	N	O
0.098	0.08	0.129	0.25	0.486	0.168	0.039	0.216
2,5	2,0	3,27	6,23	12,35	4,27	0,98	5,48



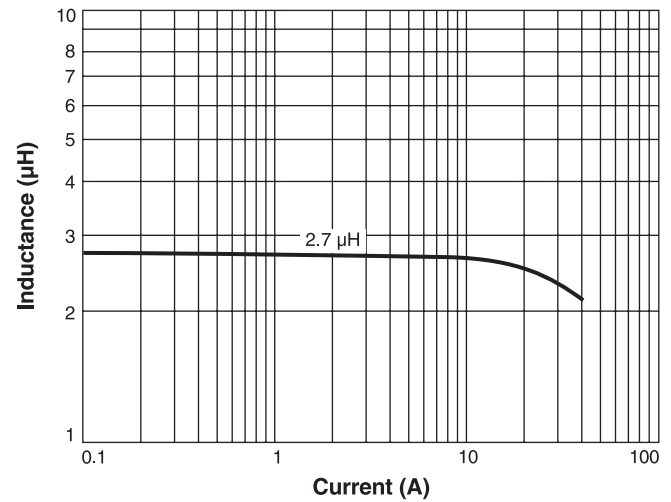
Terminal 3 is for mounting stability only.
Do not connect to ground or other circuits.

Flat Wire Power Inductor for Maxim MAX5051

Typical L vs Frequency



Typical L vs Current



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