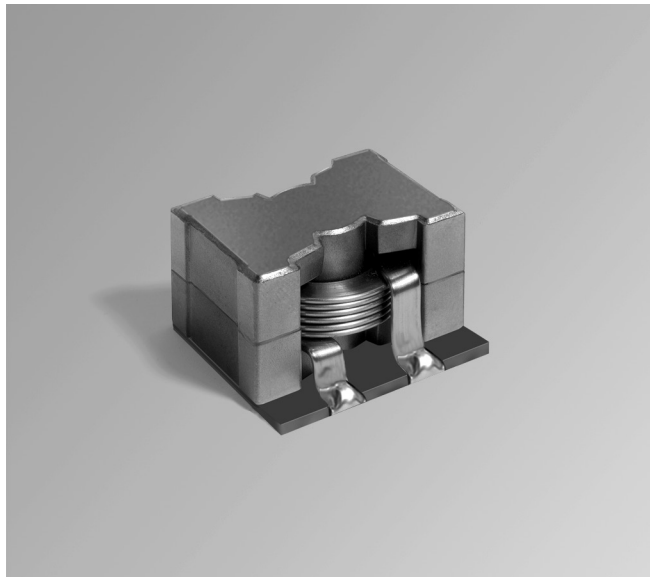




Shielded Power Inductor

For TI LM5118 buck-boost regulator



- High current power inductor with an Aux winding.
- Developed for use in high efficiency 4 switch buck-boost regulators with Texas Instruments LM5118

Core material Ferrite

Environmental RoHS compliant

Terminations Matte tin over nickel over phos bronze (L1),
Matte tin over nickel over brass (Aux).

Weight 32 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.
Tray 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

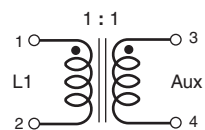
Packaging 25 pieces per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number	Inductance ¹ ±20% (μH)	DCR max (mOhms) ²		SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
		L1	Aux		10% drop	20% drop	30% drop	20°C rise	40°C rise
NA5766-AL	10.0	2.12	12.0	15	18.0	21.5	23.4	20	30

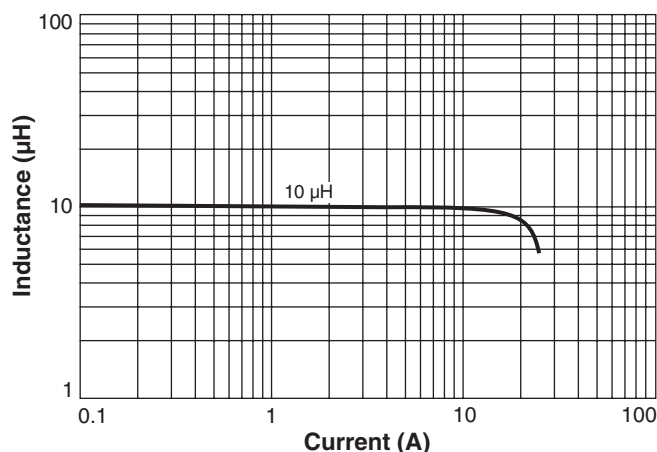
1. Inductance measured at 500 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
2. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
3. SRF measured using an Agilent/HP 4395A network analyzer and an Agilent/HP 16193A test fixture.
4. DC current at which the inductance drops the specified amount from its value without current.
5. Current that causes the specified temperature rise from 25°C ambient.
6. Electrical specifications at 25°C.

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

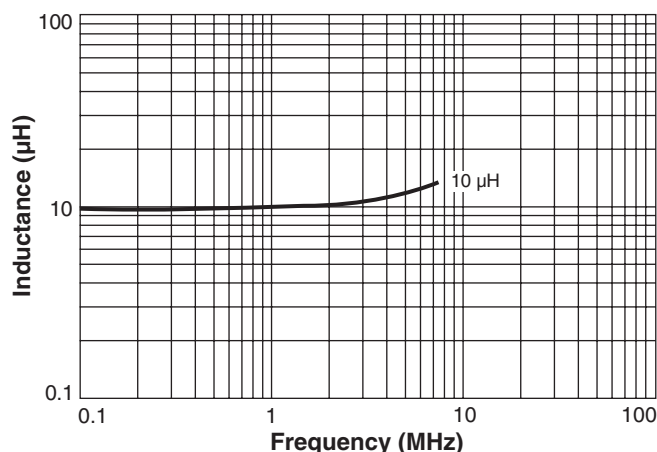


5 ○ For mounting stability only.
Do not connect to ground or other circuits.

L vs Current



L vs Frequency



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