

SPL3312 Surface Mount Power Inductor



APPLICATIONS

- ◇ DC/DC converters
- ◇ Computers
- ◇ Telecommunications Equipment
- ◇ Filters
- ◇ LCD Display

CHARACTERISTICS

Flat Top for surface mounting.
High Current SMD, up to 2.4 ADC.

FLAMABILITY: To UL94V0.

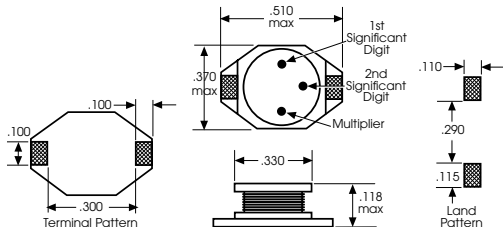
TEMPERATURE RANGE: -40°C to 85°C.

SOLDERABILITY: Excellent for IR soldering.

PACKAGING: Tape and Reel only.

DIMENSIONS IN MM

UNIT	A Max	B Max	C Max	D	E
In	0.350	0.240	0.197	0.230	0.180
mm	8.89	6.10	5.00	5.84	4.57



NOTES:

- (1) Inductance tested at 100kHz, 0.10VRMS.
- (2) Rated Current based on 10% drop in initial inductance.
- (3) DCR measured on milliohm meter.

CHARACTERISTICS

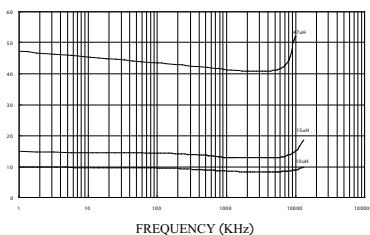
Inductance tested at 100 kHz, 0.1 Vrms.

Inductance drop = 10% typ. at Isat.

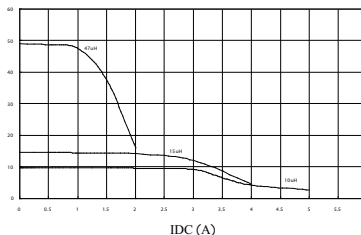
T = 40°C rise typ at Irms.

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

INDUCTANCE VS. FREQUENCY CHARACTERISTICS



INDUCTANCE VS. IDC CHARACTERISTICS



Part Number	Ind. (µH)	Tol. (±%)	DCR (Ω) Max	SRF (MHz) Typ	Isat (A)	Irms (A)
SPL3312-100M	10	20	35	0.09	2.4	2.0
SPL3312-150M	15	20	33	0.12	2.0	1.5
SPL3312-220M	22	20	25	0.19	1.6	1.3
SPL3312-330M	33	20	19	0.25	1.4	1.1
SPL3312-470M	47	20	14	0.32	1.0	0.8
SPL3312-680M	68	20	12	0.55	0.9	0.7
SPL3312-101M	100	20	10	0.70	0.7	0.6
SPL3312-151M	150	20	8	1.00	0.6	0.5
SPL3312-221M	220	20	6	1.60	0.5	0.4
SPL3312-331M	330	20	5	2.20	0.4	0.3
SPL3312-471M	470	20	4	3.30	0.3	0.2
SPL3312-681M	680	20	3	4.40	0.2	0.1
SPL3312-102M	1000	20	2.5	7.00	0.1	0.0