ICE Components, Inc.

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Low Profile Power Inductors — LP01 Series



FEATURES

-2.0mm Height
-Low DCR
-Frequency Range 1KHz to 500KHz
-Suitable for Pick And Place Applications
-Withstands Solder Reflow

PACKAGING

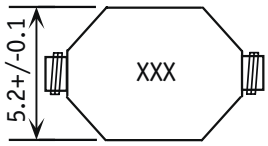
-Reel Diameter: 13"
-Reel Width: 16mm
-Pieces Per Reel: 3000

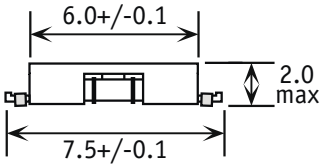
APPLICATIONS

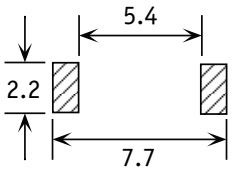
-Handheld and PDA Applications
-DC/DC Converters
-Battery Powered or Low Voltage Applications

RoHS

Mechanical







Electrical Specifications

Part Number	Inductance[1] (µH) +/- 20%	DCR max (Ω)	I_{SAT} [2] (A)	I_{RMS} [3] (A)	SRF typ (MHz)
LP01-102-RM	1.0	.12	2.30	1.67	145
LP01-152-RM	1.5	.13	1.83	1.48	135
LP01-222-RM	2.2	.14	1.45	1.39	130
LP01-332-RM	3.3	.16	1.27	1.24	120
LP01-472-RM	4.7	.19	1.05	1.18	110
LP01-682-RM	6.8	.24	.89	1.06	85
LP01-103-RM	10	.27	.76	.98	66
LP01-153-RM	15	.31	.62	.88	45
LP01-223-RM	22	.36	.54	.80	35
LP01-333-RM	33	.56	.45	.64	30
LP01-473-RM	47	.88	.38	.52	25

1. Tested @ 100kHz, 0.1Vrms.
2. Inductance drops 30% at rated I_{SAT}.
3. Temperature rise = 40°C at rated I_{RMS}.
4. Electrical specifications at 25°C.
5. Operating temperature range: -40°C to +125°C.
6. Meets UL 94V-0.