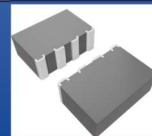


Low Profile TLVR Inductor



ATL-1M114275S

Request Samples



Check Inventory



10.8 x 4 x 7.3 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Increased Performance with high Saturation
- High Current
- Low Loss, small DCR
- Wide Switching Frequency
- Small, Compact Size
- Low Profile

Applications

- Voltage Regulation Modules (VRM)
- Multi-phased Power distribution Architectures
- High Power Graphics Cards
- Server/Blade Applications
- High Speed Switches
- Datacenter Storage Applications

Electrical Specifications

Position	Inductance (L $\pm 20\%$)	Saturation Current, Isat (A)		Temperature Rise Current, Irms (A)		DCR (m Ω)	
	nH	Typ	Max	Typ	Max	Typ	Max
Pin 1-4	85	95.0	85.0	35.0	30.0	0.11	0.14
Pin 2-3	85	85.0	75.0	32.0	27.0	0.53	0.58

Test Conditions

Test Frequency: 1.0V/100kHz

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 25°C ambient

Coupling Factor: 0.7

Leakage Inductance: 10nH

Interwinding Capacitance: 10pF

Self-Resonant Frequency (SRF): 350+ MHz

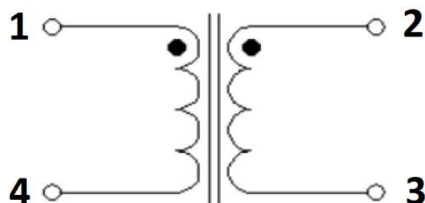
Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

Storage Condition: -40°C ~ +125°C (on board), -10°C ~ +40°C (with packaging) and R.H. 60 max

Operating Voltage: 100V

ATL-1M114275S Series is RoHS Compliant and Pb free

Schematic

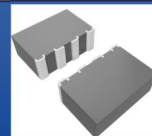


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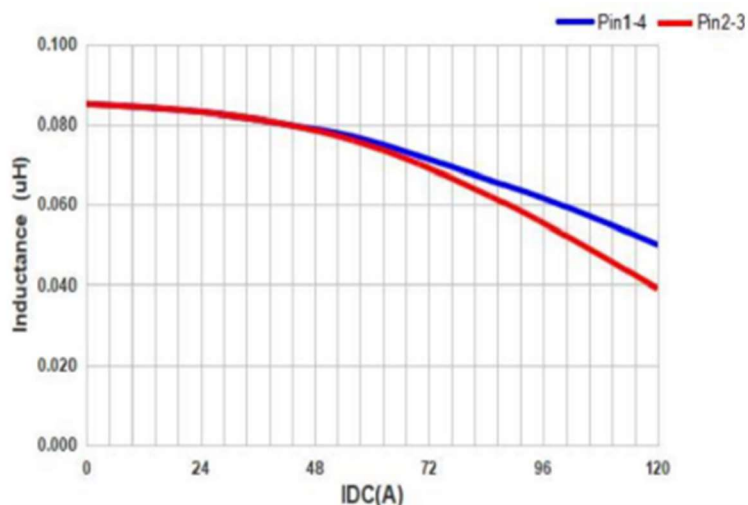
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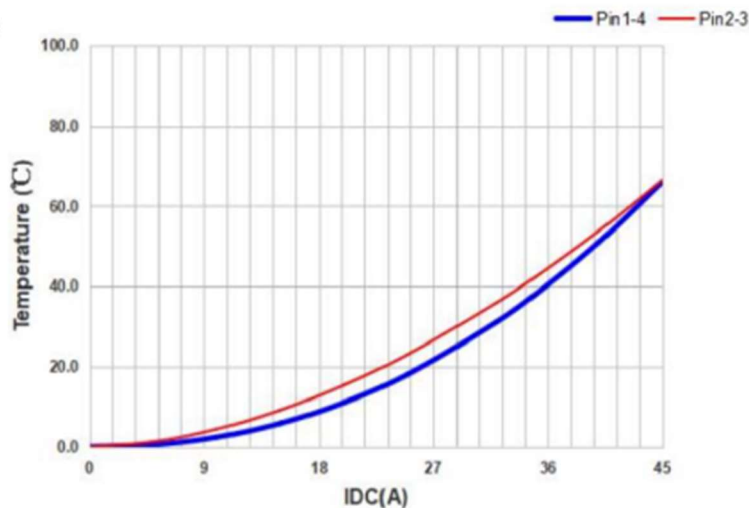
MSL Level = 1

Performance Graphs

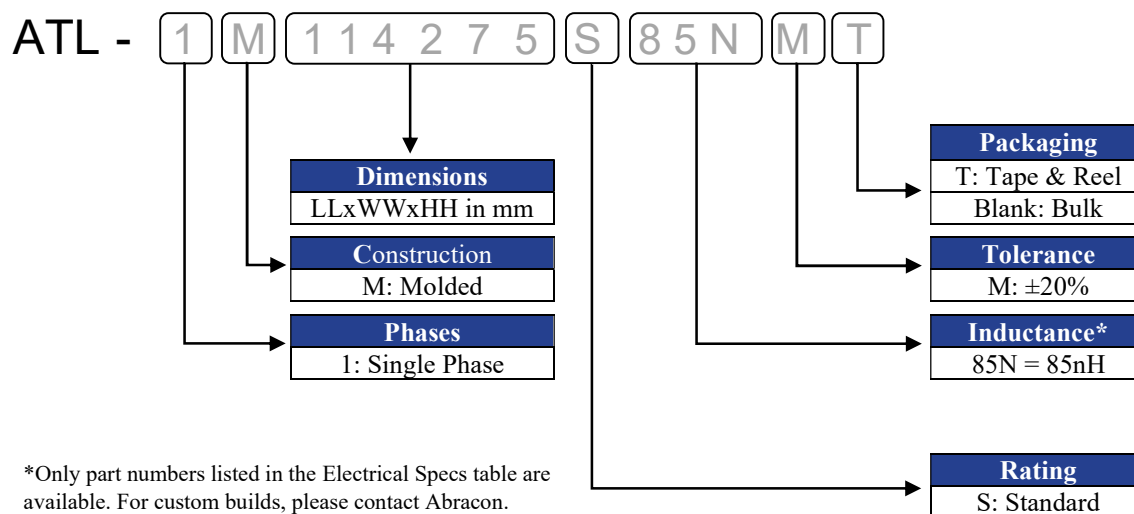
Inductance VS IDC



Temperature VS IDC



Part Identification



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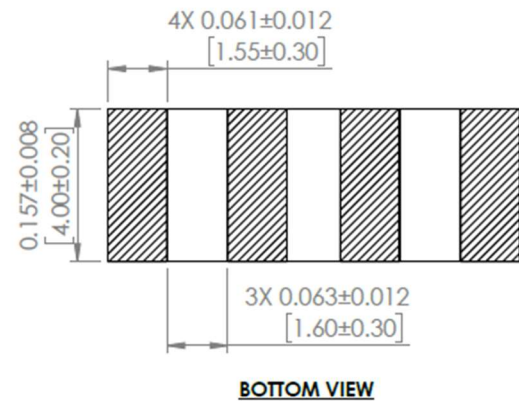
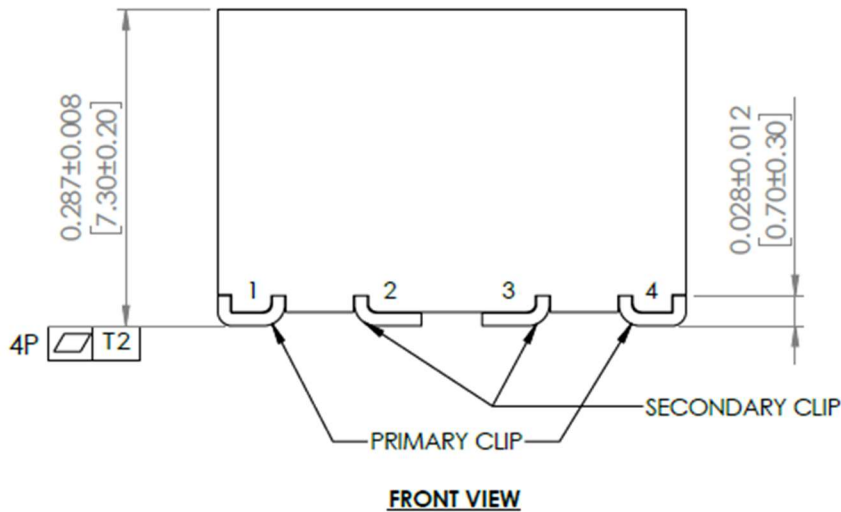


Check Inventory



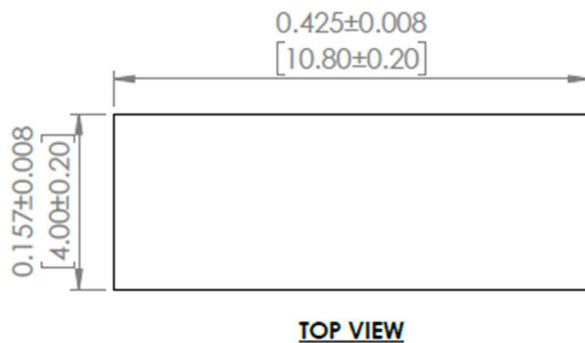
10.8 x 4 x 7.3 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



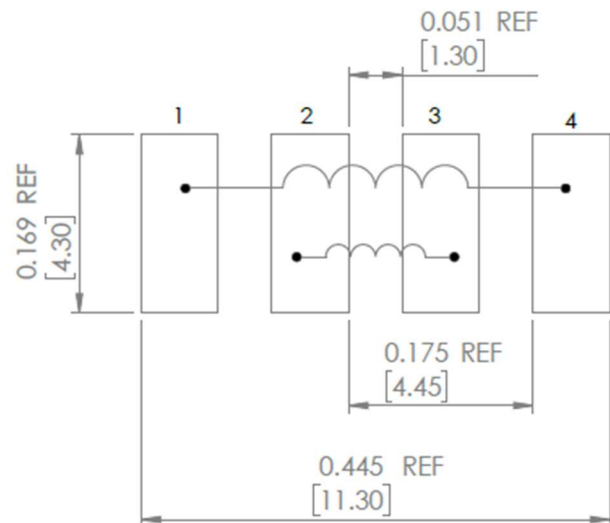
FRONT VIEW

BOTTOM VIEW



TOP VIEW

Recommended Land Pattern



Dimensions: inches[mm]

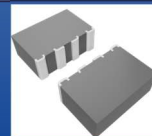


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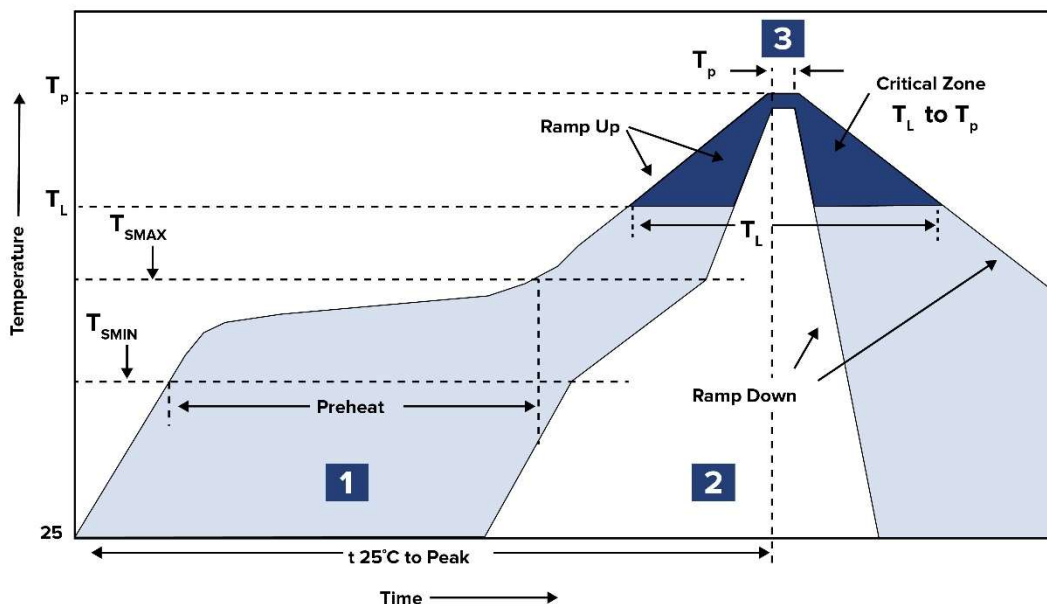


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RoHS/RoHS II Compliant

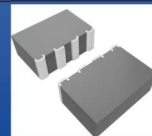
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 250°C ± 5°C	30 sec. MAX

Low Profile TLVR Inductor



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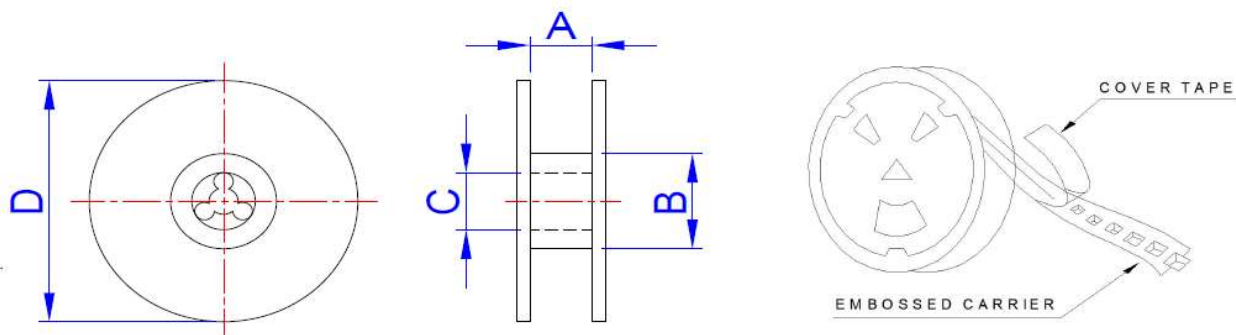
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RoHS/RoHS II Compliant

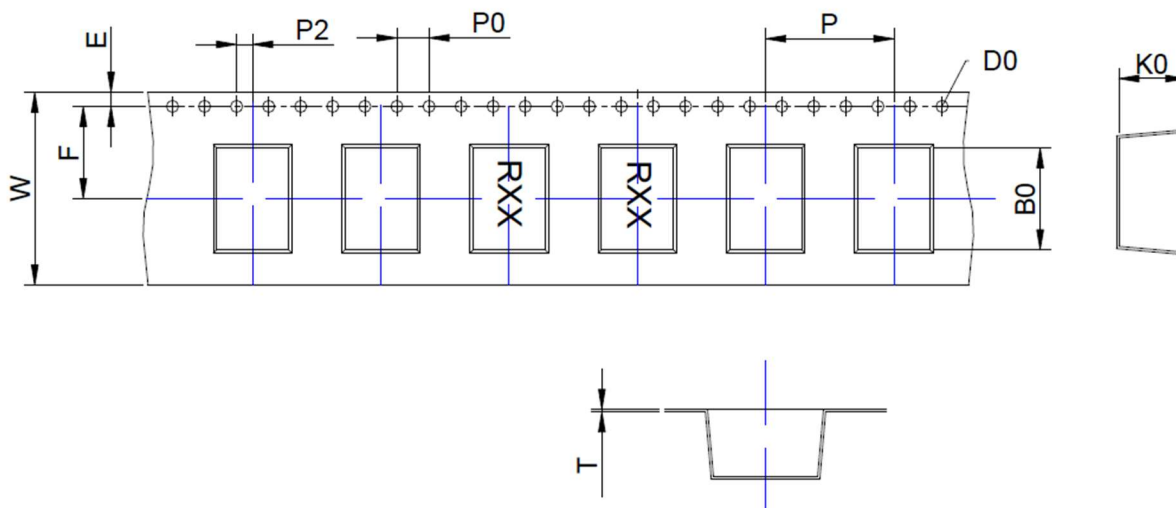
MSL Level = 1

Packaging

Tape & Reel: 600 pcs/reel



Reel	A	B	C	D
13" x 24mm	24.4 ± 0.2	100 ± 2	13.0 ± 0.5/-0.2	330



W	P	P0	P2	E	F	D0	T	A0	B0	K0
24.00	12.00	4.00	2.00	1.75	11.50	1.50	0.35	4.50	11.80	7.80
±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.05	Ref	Ref	Ref

Dimensions: mm

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