

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

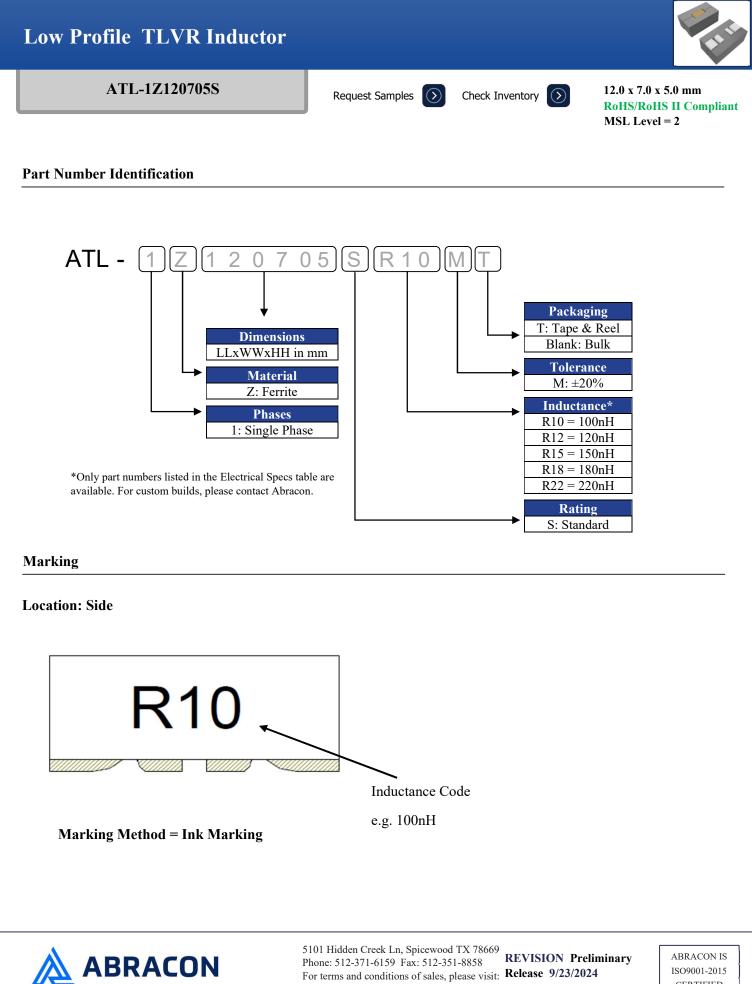
| Part Number | Inductance (L ±20%) | Saturation Current, Max Isat (A) Pins 1-4 | | | Temperature Rise Current, Irms (A) | | DCR ±10% (mΩ) | | Coupling Coefficient |
|-------------------|------------------------|--|--------|--------|---------------------------------------|----------|---------------|----------|-------------------------|
| | nH | @25°C | @100°C | @125°C | Pins 1-4 | Pins 2-3 | Pins 1-4 | Pins 2-3 | Тур |
| ATL-1Z120705SR10M | 100 | 75 | 60 | 50 | 50 | 35 | 0.25 | 0.50 | 0.92 |
| ATL-1Z120705SR12M | 120 | 55 | 45 | 40 | 50 | 35 | 0.25 | 0.50 | 0.93 |
| ATL-1Z120705SR15M | 150 | 45 | 35 | 30 | 50 | 35 | 0.25 | 0.50 | 0.94 |
| ATL-1Z120705SR18M | 180 | 38 | 28 | 20 | 50 | 35 | 0.25 | 0.50 | 0.95 |
| ATL-1Z120705SR22M | 220 | 30 | 20 | 15 | 50 | 35 | 0.25 | 0.50 | 0.96 |

Test Conditions

Isat: DC current at which the inductance drops 20% from original value. **Irms**: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 25°C ambient.

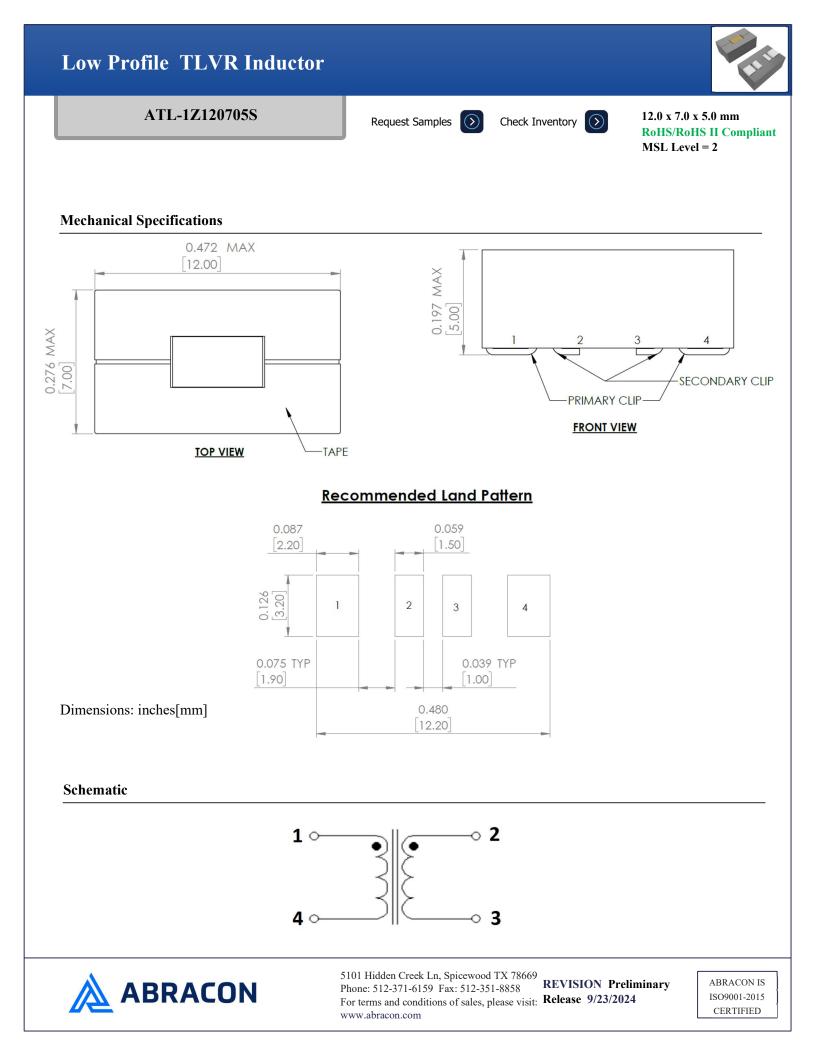
Self-Resonant Frequency (SRF): 120+ MHz Leakage Inductance: 14nH (Test 100KHz/0.1V across pins 1-4 while pins 2-3 are short) Operating Temperature: -40°C ~ +125°C (including self-temperature rise) Storage Condition: -40°C ~ +125°C (on board), -10°C ~ +40°C (with packaging) and <70% RH Working Voltage: 50VDC ATL-1Z120705S is RoHS Compliant and Pb free

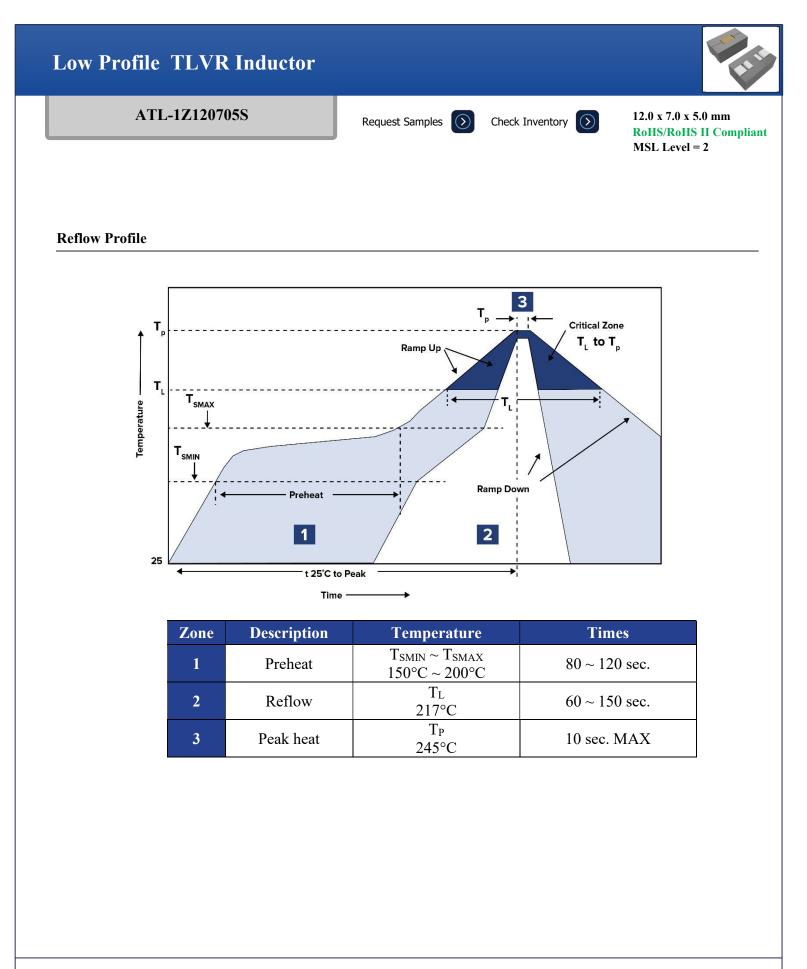




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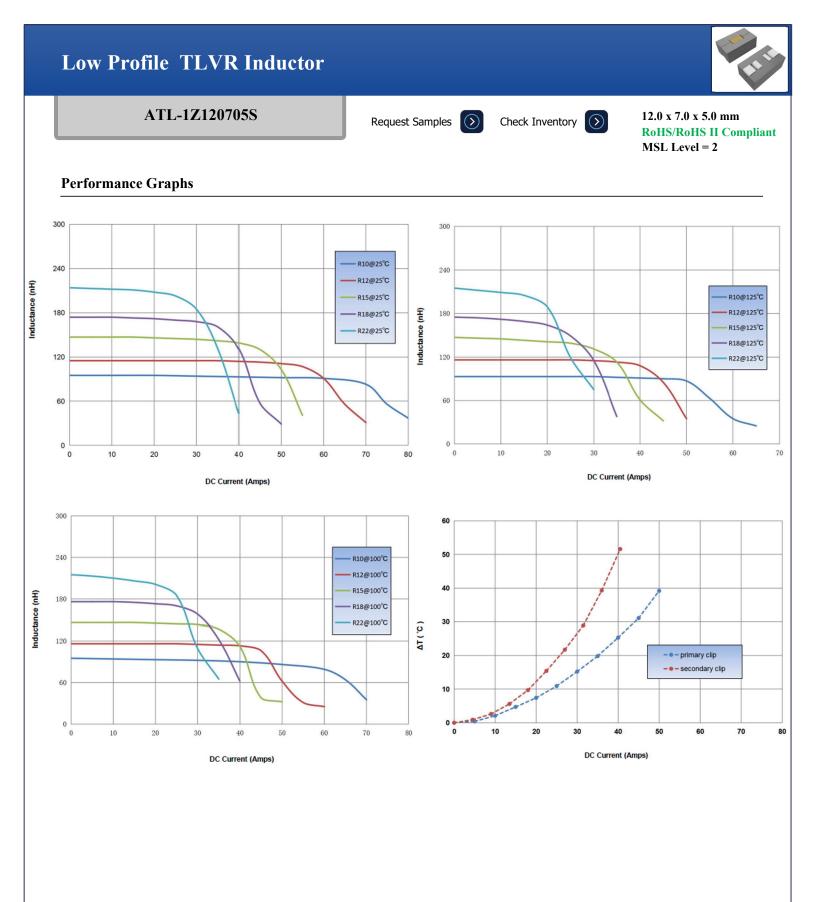






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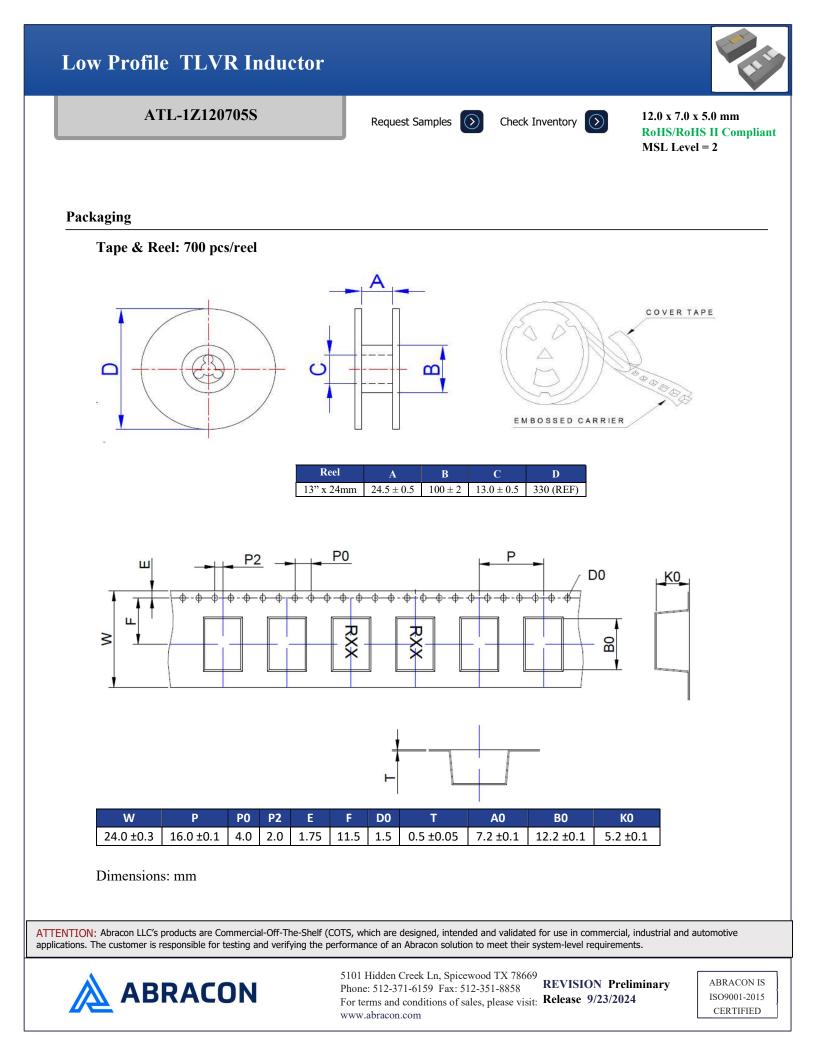




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ABRACON:

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