Extreme Low Profile Power Inductors

AXLPI-1105 Series

Request Samples 🕥

1.1 x 0.6 x 0.5 mm RoHS/RoHS II Compliant MSL Level = 1

Features

- Semi-shielded magnetics, low radiation
- High Power Density
- Extreme Low Profile of 0.5mm Max
- Very small package for medium current applications.
- High Inductance /mm³
- High self-resonant Frequency

Applications

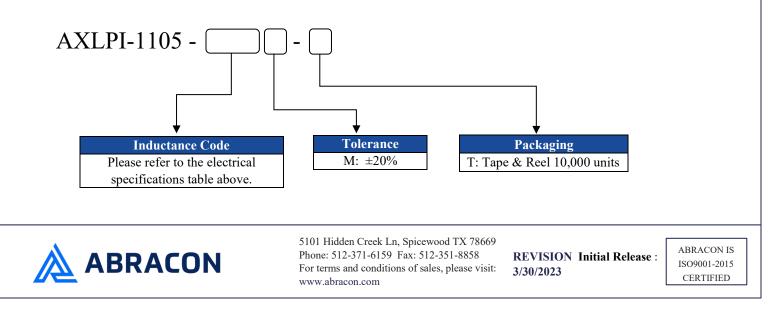
- Smartphones
- Wearable exercise monitors
- Textile Applications
- Diagnostics patches
- Hearing Aids
- Glasses, Cameras
- Highly dense power circuitry

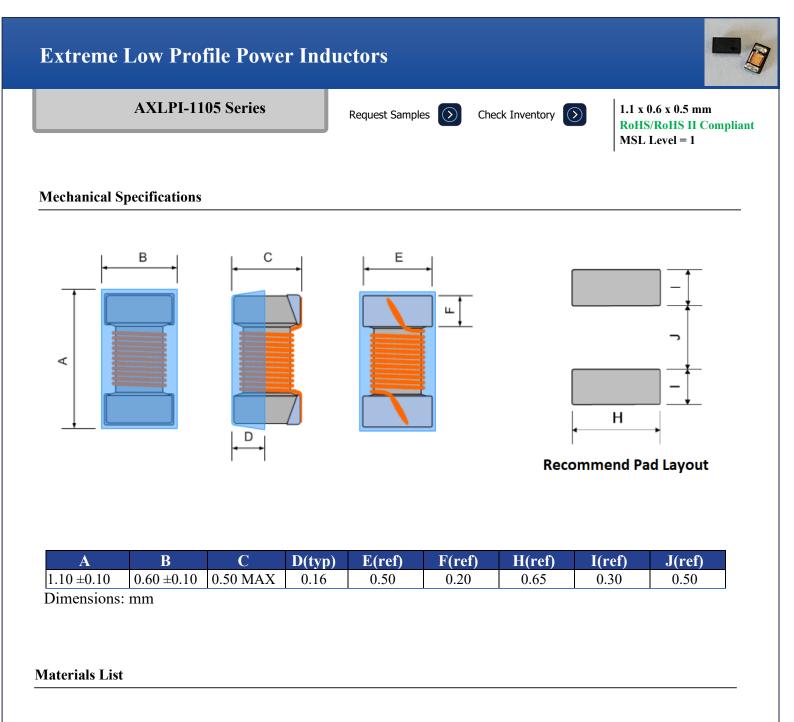
Electrical Specifications

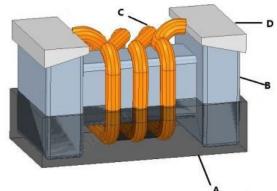
Part Number	Inductance	DCR	SRF	Rated DC Current Max.	
	(µH)	(Ω) Max	(MHz) Typ	Irms (mA)	Isat (mA)
AXLPI-1105-2R2M	2.2	2.5	150	300	190
AXLPI-1105-4R7M	4.7	3.5	70	220	150

Isat: Based on Inductance change($\Delta L/L0 \leq 30\%$) Irms : Based on Temperature change (T= $\Delta 40^{\circ}$ C) Test Freq.: 1MHz, 0.1V Operating Temperature: -40°C ~ +125°C (including self-heating) Storage Temperature: -40°C ~ +125°C (mounted on PCB)

Part Identification





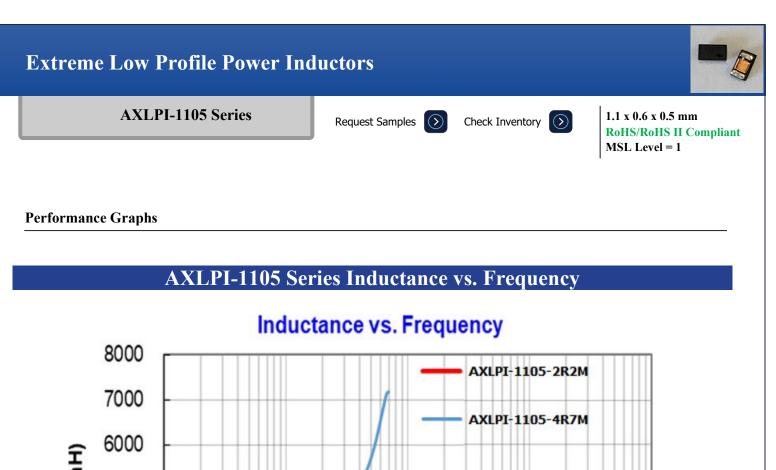


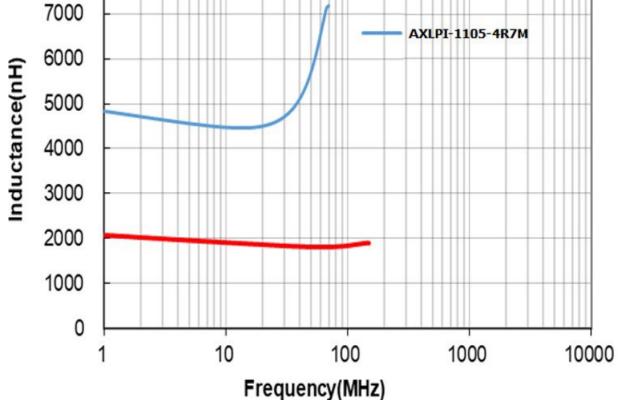
Ref	Component	Material	
Α	Coating	Magnetic Resin	
В	Core	Ferrite	
С	Wire	re Polyurethane enameled copper wire	
D	Electrodes	Ag/Ag-Pd with Ni and Sn plating	



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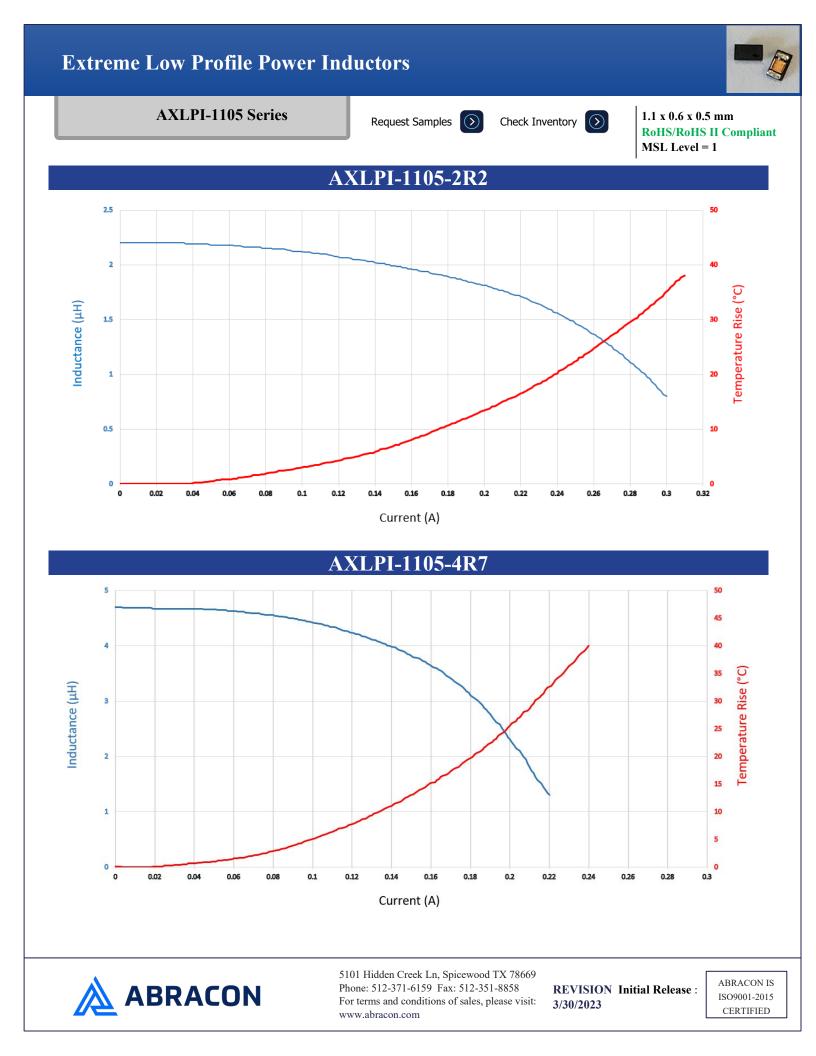






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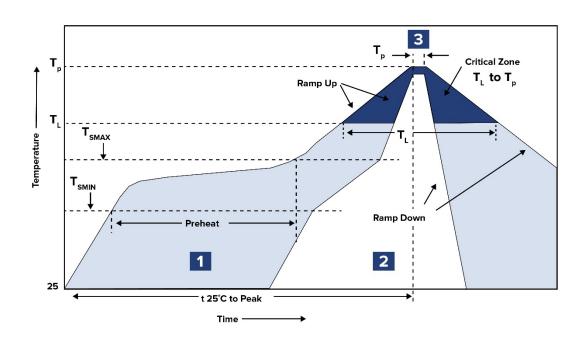
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Check Inventory

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Reflow Profile

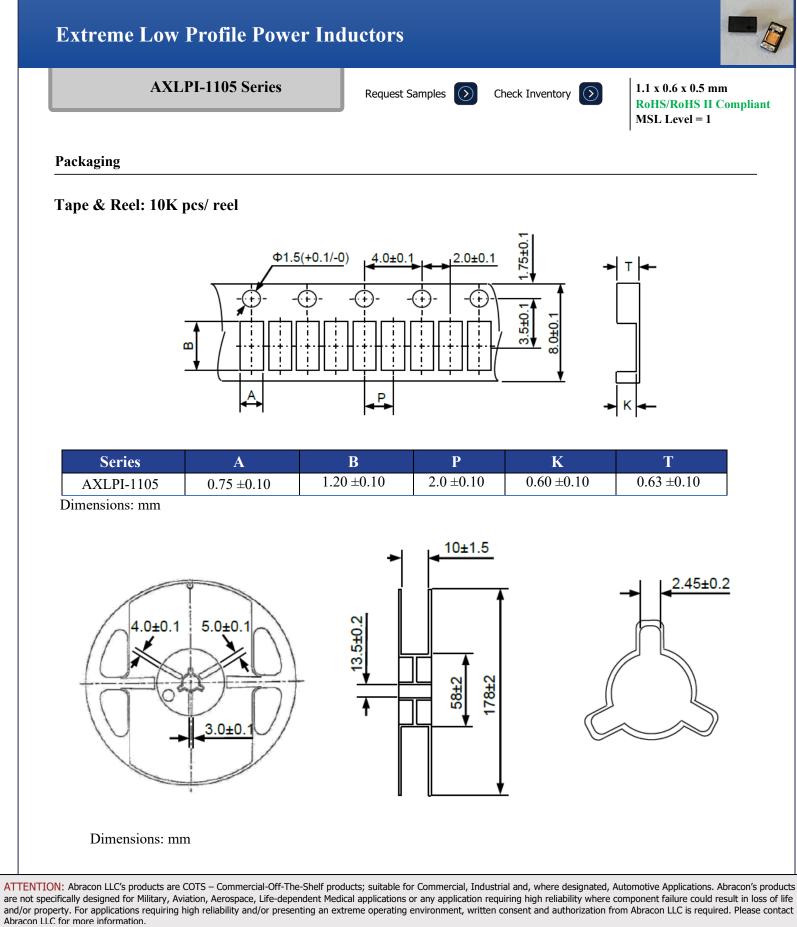


Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	T _L 217°C	$60 \sim 90$ sec.
3	Peak heat	T_P 260°C±5°C	10 sec. MAX



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