SMT Power Inductors

Power Beads - PG2110.XXXHLT Series













© Current Rating: Over 75Apk

Inductance Range: 100nH to 180nH

Height: 8mm Max

@ Footprint: 8mm x 5mm Max

Electrical Specifications @ 25°C — Operating Temperature - 40°C to +130°C ⁷									
Part Number	@ OADC @Irat	Inductance ² @Irated	Irated³ (ADC)	DCR^4 (m Ω ± 10%)	Saturation Current ⁵ (A TYP)		Heating Current ⁶		
		(nH TYP)	(ADC)		25°C	100°C	(ATYP)		
PG2110.101HLT	100		53	0.22	75	60			
PG2110.121HLT	120		53		61	49	F7		
PG2110.151HLT	150	105	50		50	40	53		
PG2110.181HLT	180	126	41		41	32			

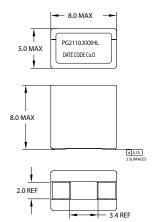
NOTES:

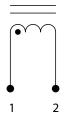
- 1. Inductance measured at 100kHz, 100mVrms.
- 2. Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
- The rated current as listed is either the saturation current (25°C or 100°C) or the heating current depending on which value is lower.
- 4. The nominal DCR is measured at point $\sqrt{2}$, as shown below on the mechanical drawing.
- 5. The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C, 100°C). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
- 6. The heating current is the DC current which causes the part temperature to increase by approximately 40°C when used in a typical application.
- 7. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may neccessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used.
- Parts with the HLT suffix are sold in tape and reel packaging. Pulse complies to
 industry standard tape and reel specification EIA-481.
 The tape and reel for this product has a width (W=24mm), pitch (Po=12mm) and depth
 (Ko=8.1mm). Samples of these parts can be ordered by removing the HLT suffix and
 replacing with HL.
- 9. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic

PG2110.XXXHLT





Weight: 2.74grms

Tape & Reel: 500/Reel

Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.25

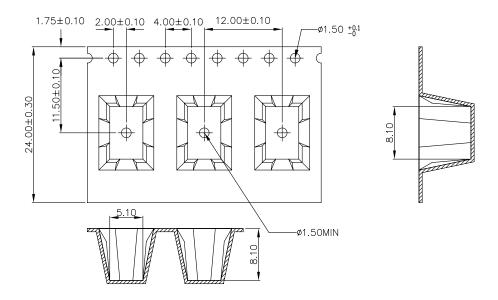
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TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST										
ТҮРЕ	REE	L SIZE (mm	TAPE SIZE (mm)	QTY						
	W ± 0.30	A0 ± 0.1	B0 ± 0.1	K0± 0.1	PCS/REEL					
PG2110.XXXHLT	24.0	5.1	8.1	8.1	500					

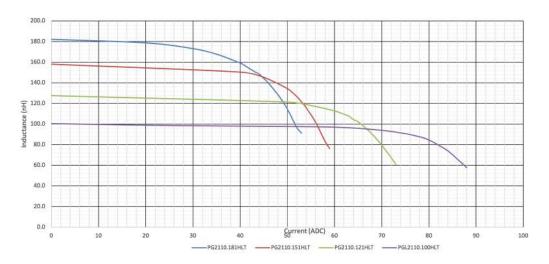
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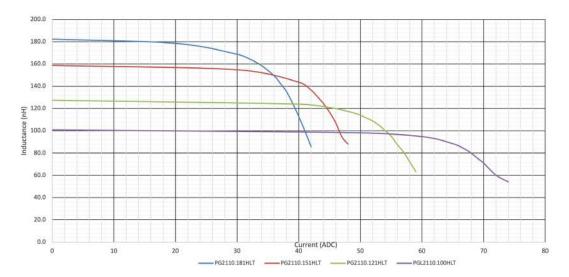
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PG2110.XXXHLT, L vs I, Curve 25C

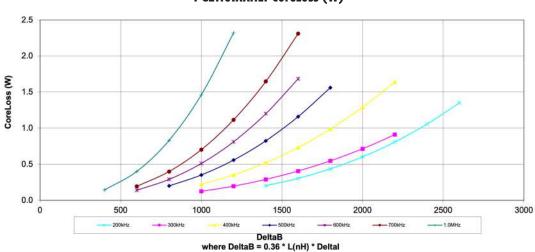


PG2110.XXXHLT, L vs I, Curve 100C

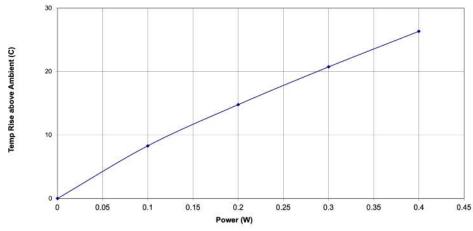


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PG2110.XXHLT CoreLoss (W)



PG2110.XXXHLT Temp Rise vs Power Dissipation



Total Power Dissipation (W) = CopperLoss + CoreLoss CopperLoss = Irms^2 * Rdc(mOhms) / 1000 CoreLoss = (from table)

For More Information:

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