

Features and Benefits:

- Migh current multi-phase coupled inductor
- ② Low profile with 4 mm max height
- Operating frequency up to 3.0 MHz
- Ferrite core material
- For use with ADI/Maxim Integrated Products Multi - Phase Controllers

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C												
Part Number	OCL @ 0 Ade (nH±20%)				0CL	Isat1	*Isat2	DCR	SCL	SCL	Isat3	
	PHASE 1 1-2	PHASE 2 3-4	PHASE 3 5-6	PHASE 4 7-8	@ Isat 1&2 (nH MIN)	@ 25°C (A)	@ 105°C (A TYP)	$(m \Omega)$ Max.	@ 0 Adc (nH)	@ Isat 3 (nH MIN)	@ 105°C (A)	
PGL7272HLT	110	110	\	\	70	23	20	0.20	25±20%	16	*73	
PGL7273HLT	110	120	110	\	70	23	20	0.20	25±20%	16	*73	
PGL7274HLT	110	120	120	110	70	23	20	0.20	25±20%	16	*73	

Notes:

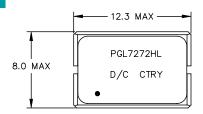
- 1. Open circuit inductance (OCL) test parameters: 1MHz, 0.1V, 0Adc.
- 2. Isat 1 & Isat 2 for OCL, Isat3 for SCL are the DC current which cause the inductance drops by 20% TYP.
- 3. Short circuit inductance (SCL):
 - A. PGL7272HLT: Measure (1-4) with shorted (2,3), and divide by 2.
 - B. PGL7273HLT: Measure (1-6) with shorted (2,3), (4,5), and divide by 3.
 - C. PGL7274HLT: Measure (1-8) with shorted (2,3), (4,5), (6,7) and divide by 4.
- The items on indicated * are guaranteed by design and verified by design stage.
 Will not test for production.
- 5. DCR: Tested from point 1/2, 3/4, 5/6, 7/8 from specific points

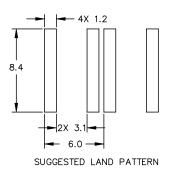
- The heating current, or rms current, per phase is calculated to produce a 45°C rise above the ambient temperature.
- 7. IIn high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may neccessitate derating the current in order to limit the 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.
- 8. The temperature of the component (ambient plus temperature rise) must be within the stated operating range
- Optional tape and reel packaging can be ordered by adding a T suffix to the partnumber (ie: PGL7272HL becomes PGL7272HLT). Pulse complies to the industrystandard tape and reel specification EIA481.

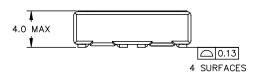


MECHANICALS SCHEMATIC

PGL7272HLT



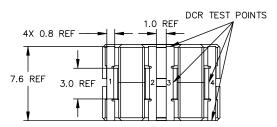






Weight:

XX ±0.13



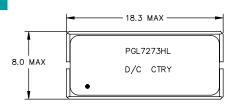
1.48g **Dimensions:** mm Unless stated otherwise the tolerance on the listed dimensions are: ±0.25

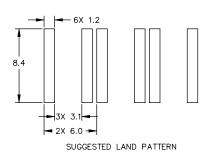


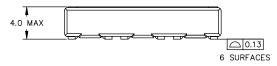
MECHANICALS

SCHEMATIC

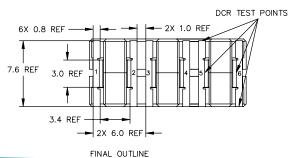
PGL7273HLT





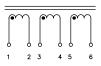






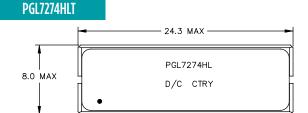
Weight: 2.2g **Dimensions:** mm Unless stated otherwise the tolerance on the

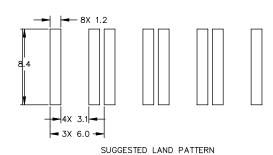
listed dimensions are: χ ±0.25 XX ±0.13





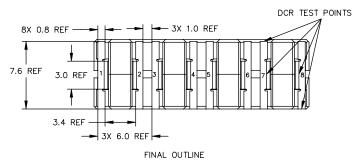










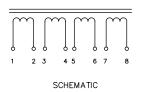


Weight: 3.0g

Dimensions: mm

Unless stated otherwise the tolerance on the listed dimensions are:

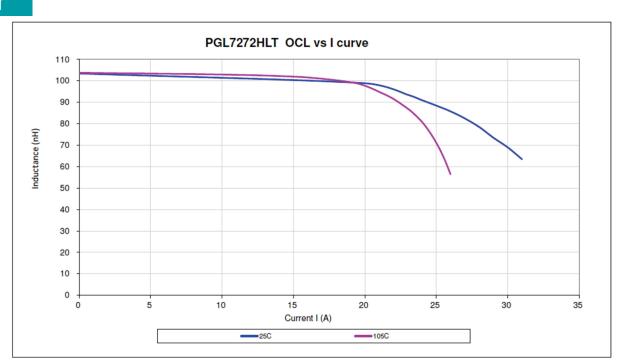
X ±0.25 XX ±0.13



OCL vs I curve

PGL7272HLT

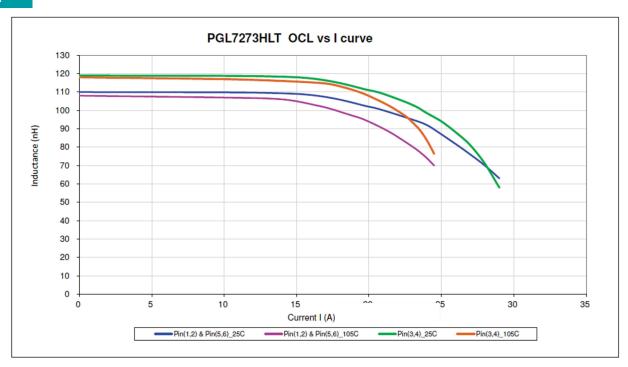
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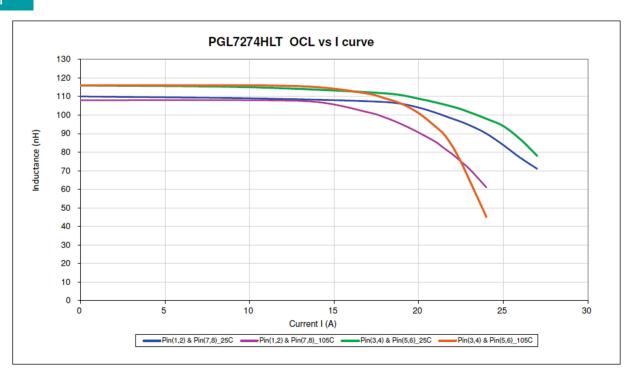
OCL vs I curve

PGL7273HLT



OCL vs I curve

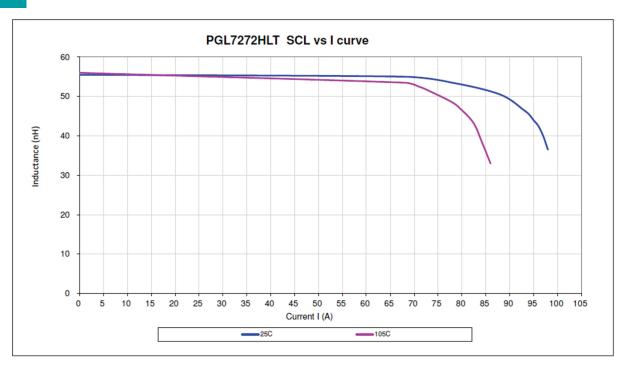
PGL7274HLT





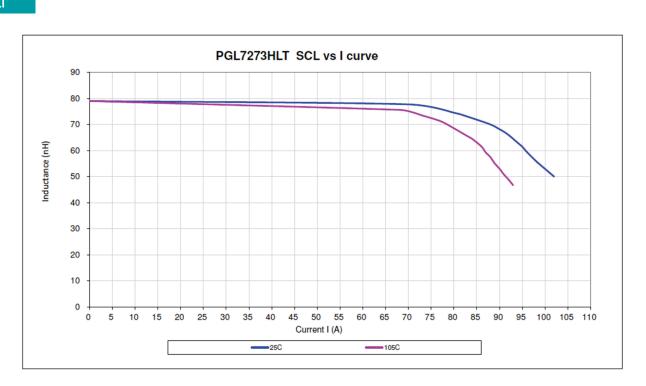
SCL vs I curve

PGL7272HLT



SCL vs I curve

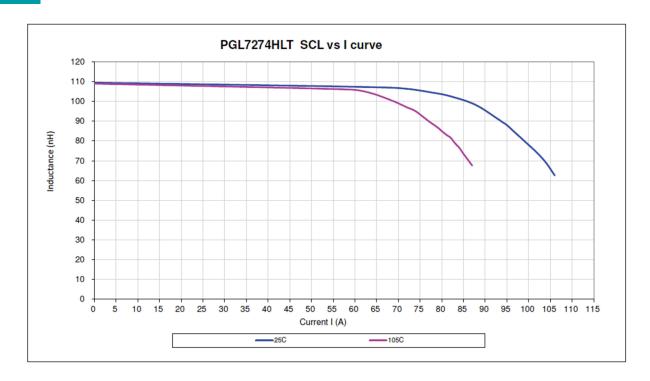
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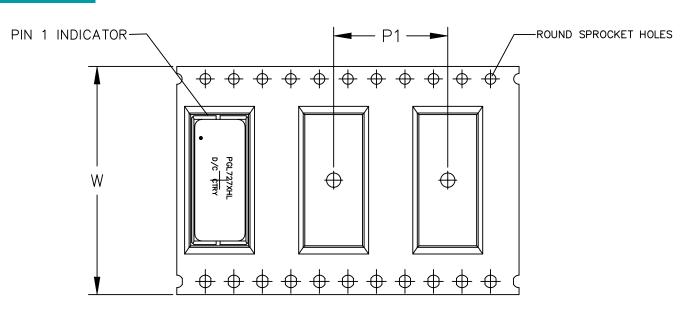
SCL vs I curve

PGL7274HLT



TAPE AND REEL PACKING DETAILS

PGL727XHLT



USER DIRECTION OF FEED

SURFACE MOUNTING TYPE, REEL/TAPE LIST										
PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)	PE SIZE (mm)						
PART NUMBER	A	P_1	W	K_{0}	PCS/REEL					
PGL7272HLT	Ø330	16	24	4.0	900					
PGL7273HLT	Ø330	16	32	4.1	900					
PGL7274HLT	Ø330	16	44	4.1	900					

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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