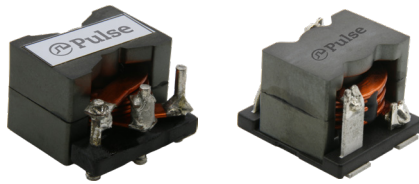






# HIGH FREQUENCY FLAT COIL INDUCTOR

PGL6459HLT & PGL6704.222HLT Series



-  **Height:** 13.5mm Max
-  **Footprint:** 19x17mm
-  **Inductance:** 2.2uH
-  **Current Rating:** 16A

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Inductance @ 0Adc (uH±20%)	Inductance @ Isat (uH MIN)	Irated (ADC)	DCR mohms (max)	Saturation Current (A TYP)		Heating Current (ADC)	Lk Leakage inductance (nH)	Turn Ratio
					25°C	125°C			
PGL6459HLT	2.2	1.3	22	1.7	22	15	30	40 MAX	1:1
PGL6704.222HLT	2.2	1.54	16	1.6	16	12	34	40 TYP	1:1

## Notes:

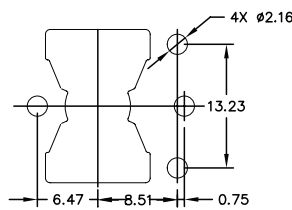
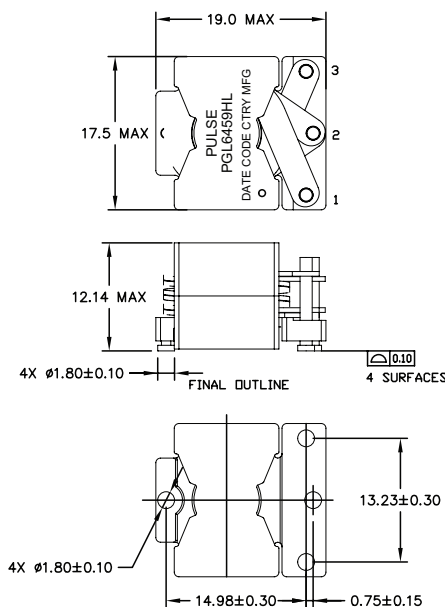
- Inductance measured at 100kHz, 100mVrms.
- Inductance at Irated is the value of the inductance at 25°C at the listed rated current.
- The rated current as listed is either the saturation current (25°C) or the heating current depending on which value is lower.
- The saturation current is the typical current which causes the inductance to drop by 30% 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.

- The heating current is the DC current which causes the part temperature to increase by approximately 40°C when used in a typical application.
- Leakage inductance is measured at 100Khz, 100mVrms, pin 1-2 value with pin 2/3 or pin 3/4 shorted.
- 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=44mm), pitch (Po=28mm) and depth (Ko=14mm). Samples of these parts can be ordered by removing the HLT suffix and replacing with HL.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

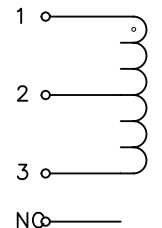
## Mechanicals

## Schematics

### PGL6459HLT



SUGGESTED LAND PATTERN



**Weight** .....11.8 grams  
**Tape & Reel** .....150/reel  
**Tray** .....40/tray  
**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,

all tolerances are  $\pm \frac{.010}{0.25}$

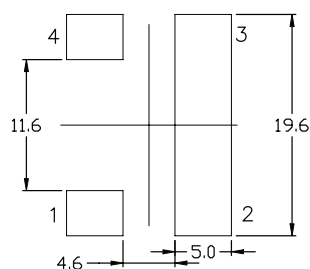
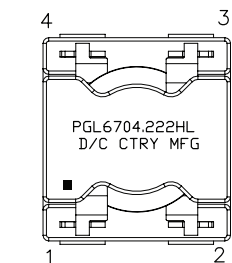
# HIGH FREQUENCY FLAT COIL INDUCTOR

PGL6459HLT & PGL6704.222HLT Series

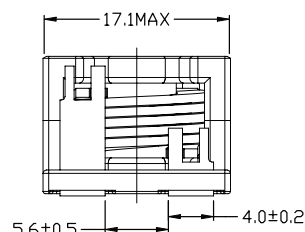
## Mechanicals

## Schematics

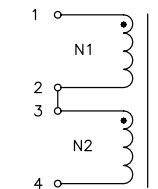
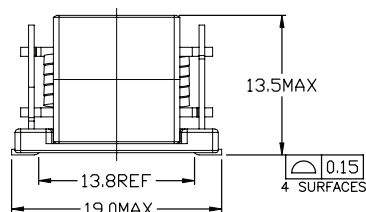
### PGL6704.222HLT



SUGGESTED LAND PATTERN



FINAL OUTLINE



PINS 2,3 connected in customer's PCB

Weight .....11.8 grams

Tape & Reel .....120/reel

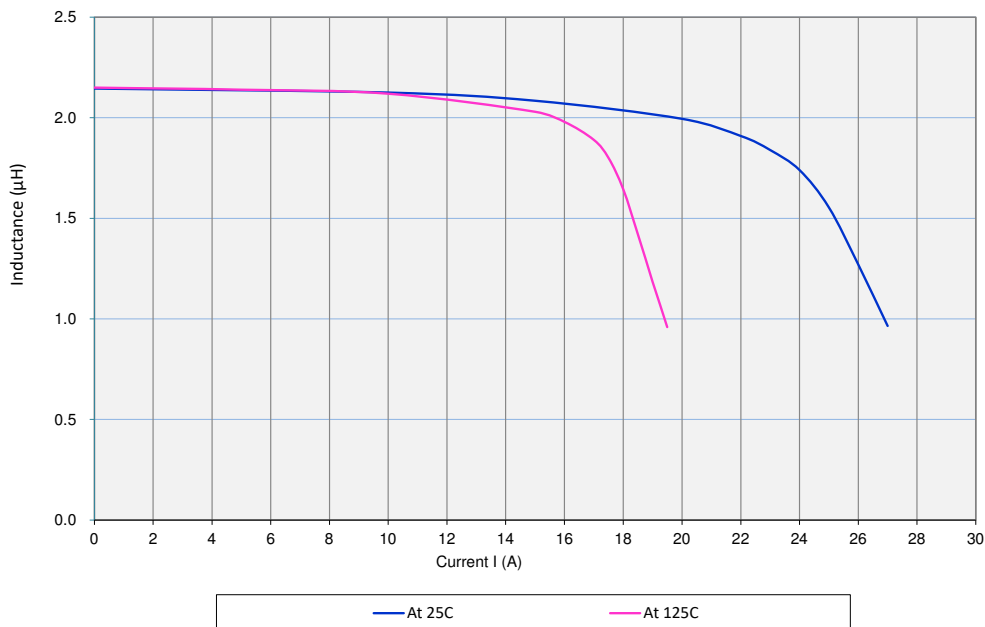
Tray .....40/tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,

all tolerances are  $\pm \frac{.010}{0.25}$

### PGL6459HLT L vs I Curve



## For More Information

Americas - [prodinfo\\_power\\_americas@yageo.com](mailto:prodinfo_power_americas@yageo.com) | Europe - [prodinfo\\_power\\_emea@yageo.com](mailto:prodinfo_power_emea@yageo.com) | Asia - [prodinfo\\_power\\_asia@yageo.com](mailto:prodinfo_power_asia@yageo.com)

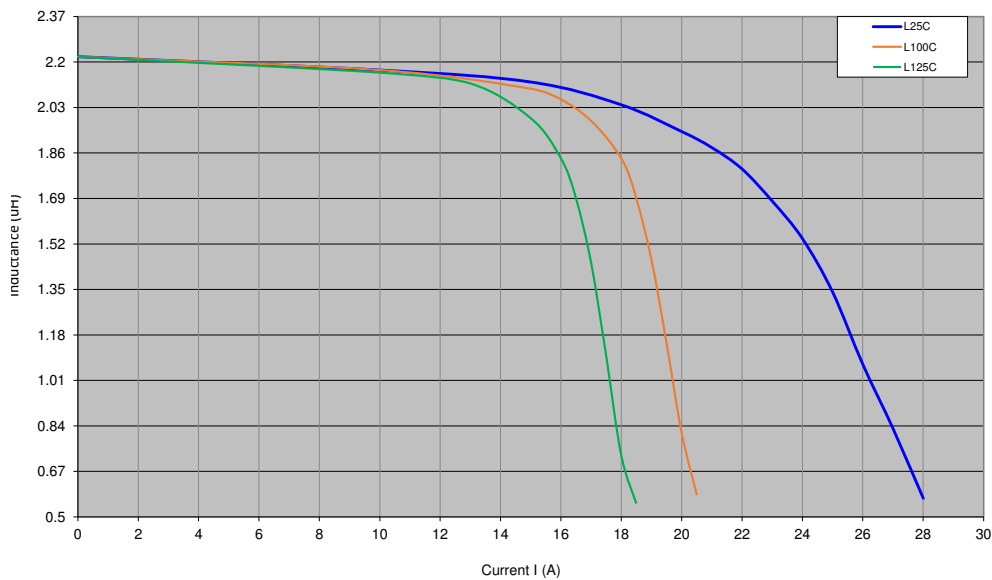
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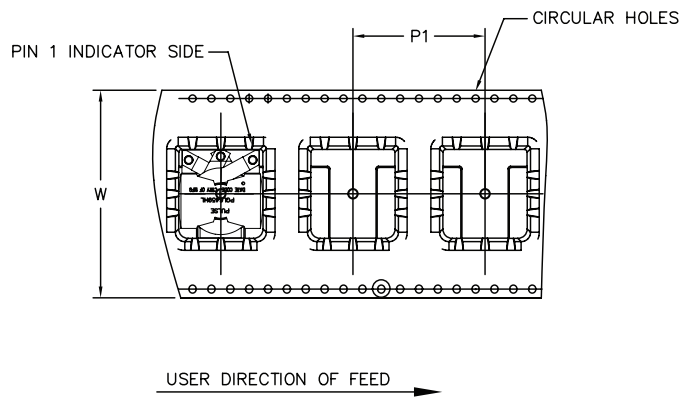
# HIGH FREQUENCY FLAT COIL INDUCTOR

PGL6459HLT & PGL6704.222HLT Series

## PGL6704.222HLT L vs I Curve



## Tape & Reel



SURFACE MOUNTING TYPE, REEL/TAPE LIST				
PART NUMBER	TAPE SIZE (mm)			QTY
	W	P <sub>1</sub>	K <sub>0</sub>	PCS/REEL
PGL6459HLT	44	28	12.4	150
PGL6704.222HLT	44	28	14	120

## For More Information

Americas - [proinfo\\_power\\_americas@yageo.com](mailto:proinfo_power_americas@yageo.com) | Europe - [proinfo\\_power\\_emea@yageo.com](mailto:proinfo_power_emea@yageo.com) | Asia - [proinfo\\_power\\_asia@yageo.com](mailto:proinfo_power_asia@yageo.com)

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