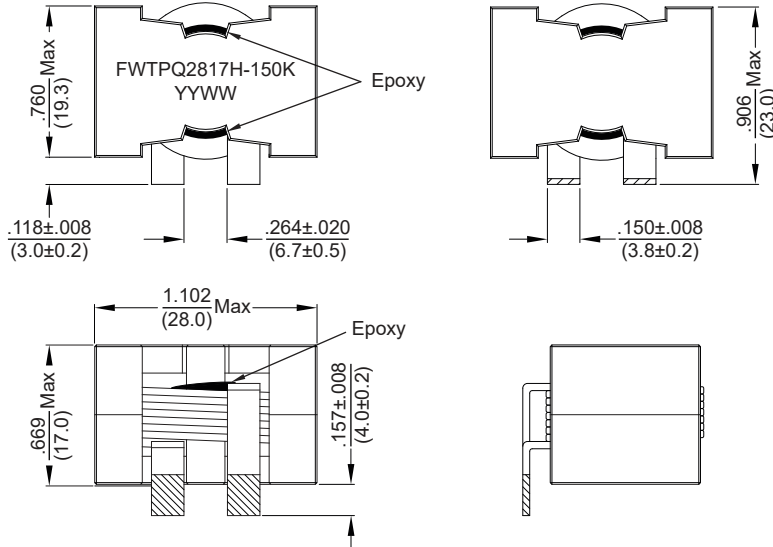


# Flat Wire Through Hole Power Inductor FWTPQ2817H

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



Allied Part Number	Inductance (μH) ±10%	Test Frequency KHz, 0.1V	DCR (mΩ)	I <sub>rms</sub> (A) Typ.		I <sub>sat</sub> (A) Typ.			SRF (MHz) Typ.
				20°C	40°C	10%	20%	30%	
FWTPQ2817H-3R3K	3.3	500	2.82	20.0	28.0	91.0	92.5	93.6	40.0
FWTPQ2817H-4R7K	4.7	500	2.82	20.0	28.0	59.0	61.2	62.4	30.0
FWTPQ2817H-6R8K	6.8	500	2.82	20.0	28.0	42.0	45.0	45.9	25.0
FWTPQ2817H-100K	10	500	2.82	20.0	28.0	28.0	31.2	32.1	20.0
FWTPQ2817H-150K	15	500	2.82	20.0	28.0	18.0	21.2	21.9	16.0
FWTPQ2817H-220K	22	500	2.82	20.0	28.0	12.0	14.0	15.0	15.0
FWTPQ2817H-330K	33	500	2.82	20.0	28.0	7.0	8.7	9.6	10.0

All specifications subject to change without notice.

### Features

- Flat Wire Through Hole Power Choke.
- Low Magnetic Loss
- Low DCR
- High Saturation Current

### Electrical

**Inductance Range:** 3.3μH to 33μH

**Tolerance:** ±10%

**Test Frequency:** 500KHz, 0.1V

**Operating Temp:** -40°C to +85 °C (including self temp rise).

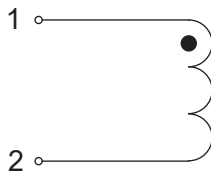
**I<sub>sat</sub>:** Current at which the inductance will drop by 10%, 20%, and 30% from its original inductance without current.

**I<sub>rms</sub>:** The actual value of DC current when the temperature rise is ΔT 20°C and ΔT 40°C.

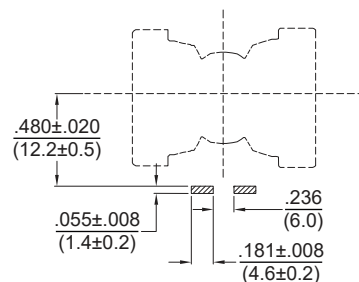
### Physical

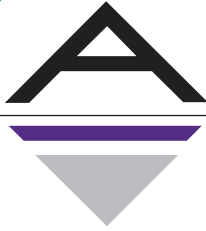
**Packaging:** 35 per Tray, 560pcs per Carton

### SCHEMATIC



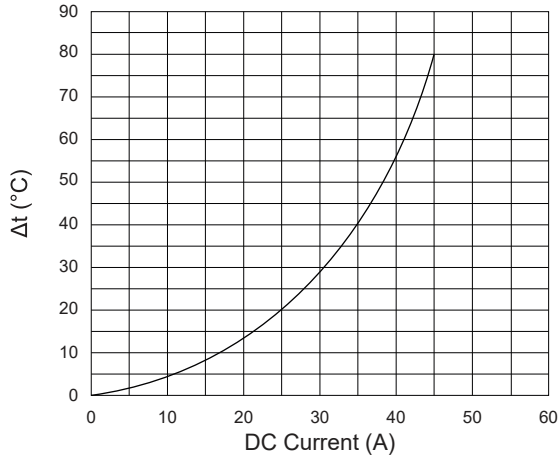
### RECOMMENDED PAD LAYOUT



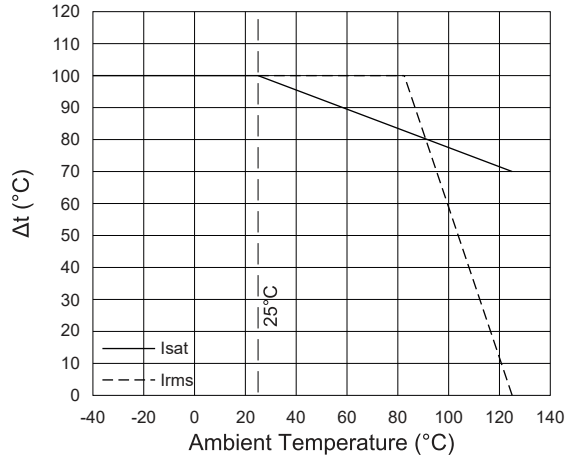


# Flat Wire Through Hole Power Inductor FWTPQ2817H

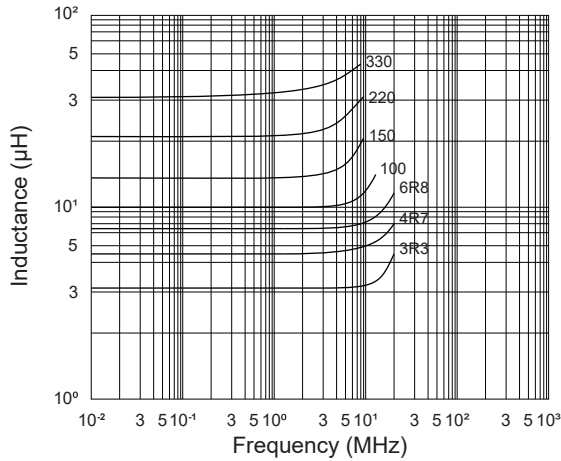
**Temp Rise vs. DC Current Response**



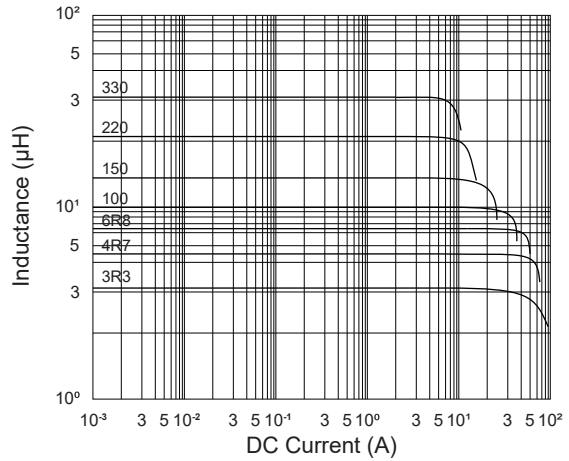
**Current Rating Response**



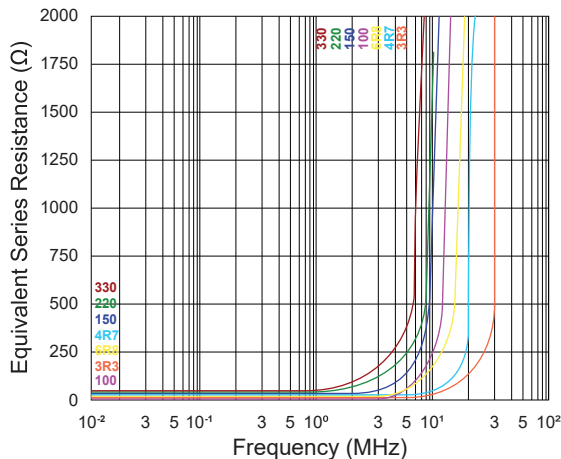
**Inductance vs. Freq Response**



**Inductance vs. DC Superposition Response**



**ESR vs. Freq Response**



**Reflow Solder Profile**

