



XFHCL28xxx-xxx Series Shielded Power Inductors

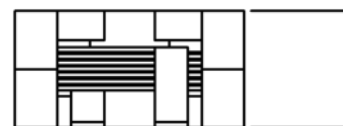
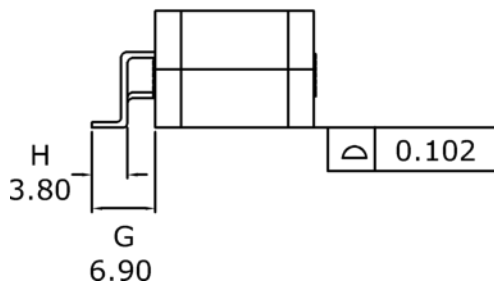
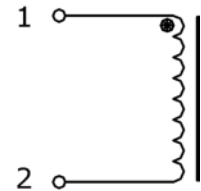
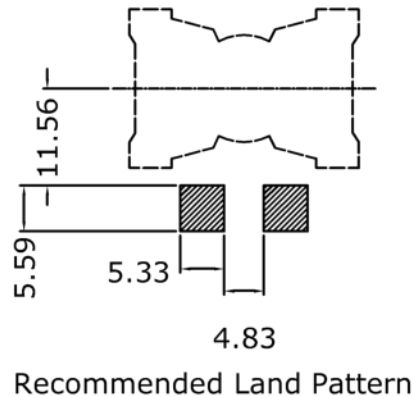
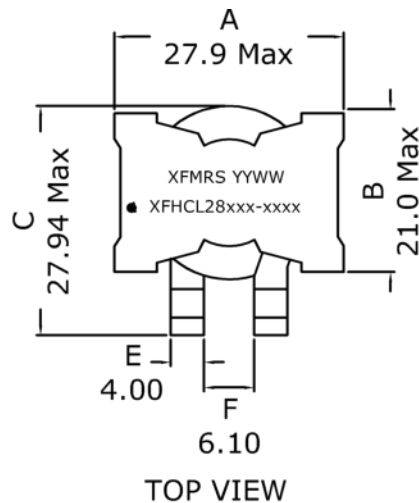
- ◆ Inductance Range: 1.50uH to 33.0uH
- ◆ Current Ratings: 3.3A to 100A
- ◆ Low DC Resistance Design
- ◆ Surface Mount package

Part Number	Inductance 500KHz, 0.1V (uH) $\pm 10\%$	DCR (m Ω) Max	SRF Typ (MHz)	Isat (A) 10% drop	Isat (A) 20% drop	Isat (A) 30% drop	Irms (A) 40°C rise
XFHCL2814L-1R5K	1.5	1.62	60	100	100+	100+	30
XFHCL2814H-2R2K	2.2	2.01	40	100	100+	100+	30
XFHCL2814L-2R2K	2.2	1.62	50	82	84	84.8	30
XFHCL2817H-3R3K	3.3	2.82	40	91	92.5	93.6	28
XFHCL2814H-3R3K	3.3	2.01	30	62	66.9	68.4	30
XFHCL2814L-3R3K	3.3	1.62	40	48	54	57	30
XFHCL2817H-4R7K	4.7	2.82	30	59	61.2	62.4	28
XFHCL2814H-4R7K	4.7	2.01	25	42	48	50.1	30
XFHCL2814L-4R7K	4.7	1.62	30	33	36.9	39	30
XFHCL2817H-6R8K	6.8	2.82	25	42	45	45.9	28
XFHCL2814H-6R8K	6.8	2.01	20	30	34.5	36.2	30
XFHCL2814L-6R8K	6.8	1.62	25	22	26	27.8	30
XFHCL2817H-100K	10	2.82	20	28	31.2	32.1	28
XFHCL2814H-100K	10	2.01	15	18	21.5	23.4	30
XFHCL2814L-100K	10	1.62	20	13	16.2	17.6	30
XFHCL2817H-150K	15	2.82	16	18	21.2	21.9	28
XFHCL2814H-150K	15	2.01	12	11.5	14	15.2	30
XFHCL2814L-150K	15	1.62	15	7.5	9.8	11	30
XFHCL2817H-220K	22	2.82	15	12	14	15	28
XFHCL2814H-220K	22	2.01	10	7	8.6	9.6	30
XFHCL2814L-220K	22	1.62	10	4.5	6	6.8	30
XFHCL2817H-330K	33	2.82	10	7	8.7	9.6	28
XFHCL2814H-330K	33	2.01	8	4	5.1	5.9	30
XFHCL2814L-330K	33	1.62	7	2	2.6	3.3	30

Notes:

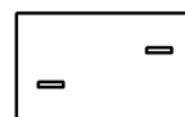
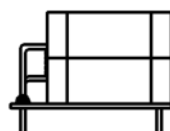
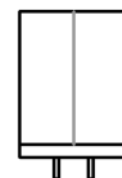
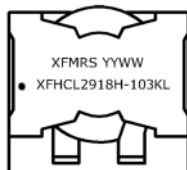
- Solderability: Leads shall meet MIL-STD-2020G, Method 208H for solderability
- Flammability: UL94V-0
- ASTM oxygen index: > 28%
- Insulation System: Class F 155°C. UL file E151556
- All listed parameters are to be within tolerance from -40°C to +85°C unless otherwise noted
- Storage Temperature Range: -55°C to +125°C
- Aqueous wash compatible
- Electrical and mechanical specifications 100% tested
- RoHS Compliant Component

Mechanical Dimensions



Max Height
XFHCL2814L 14.22
XFHCL2814H 14.22
XFHCL2817H 16.64

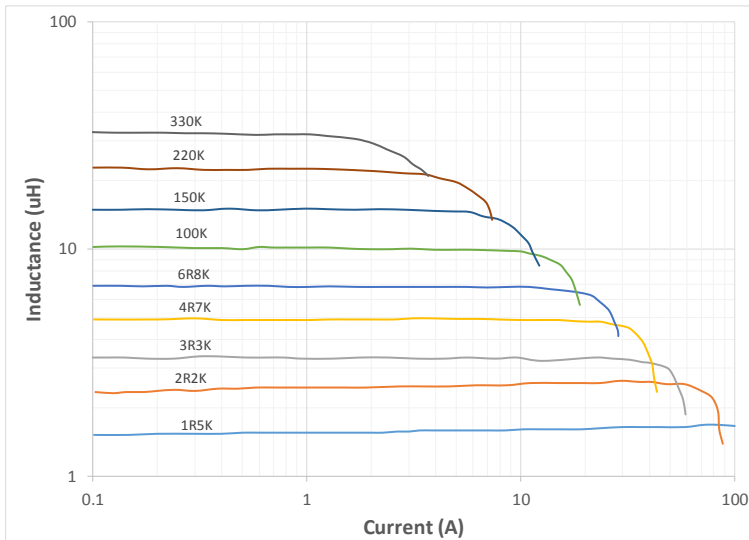
* Horizontal and vertical through-hole packages available upon request



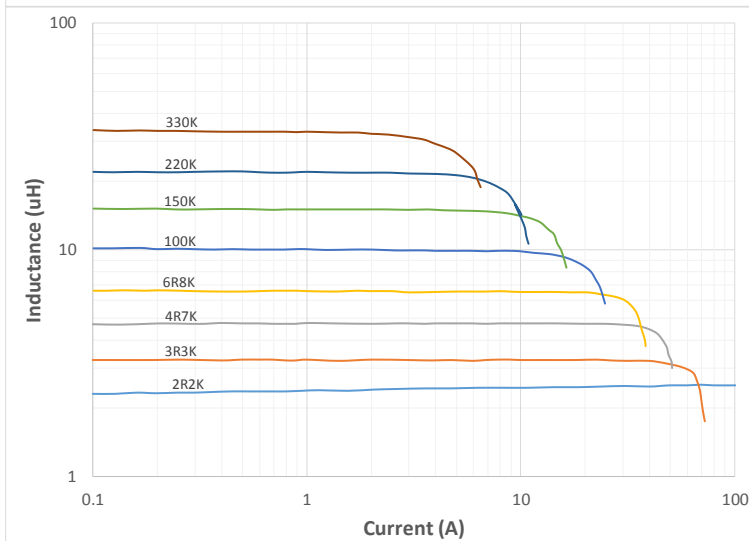
Horizontal: XFHCL28xxxTH-xxx

Vertical: XFHCL31TH-xxx

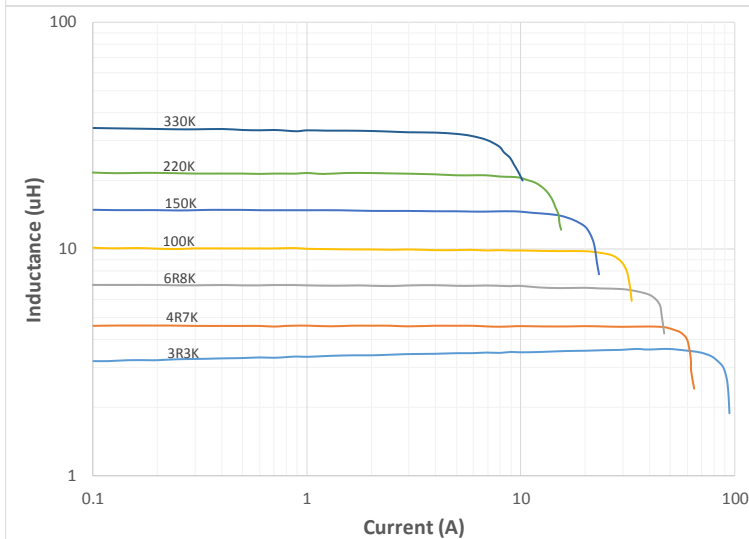
Inductance vs Current



XFHCL2814L

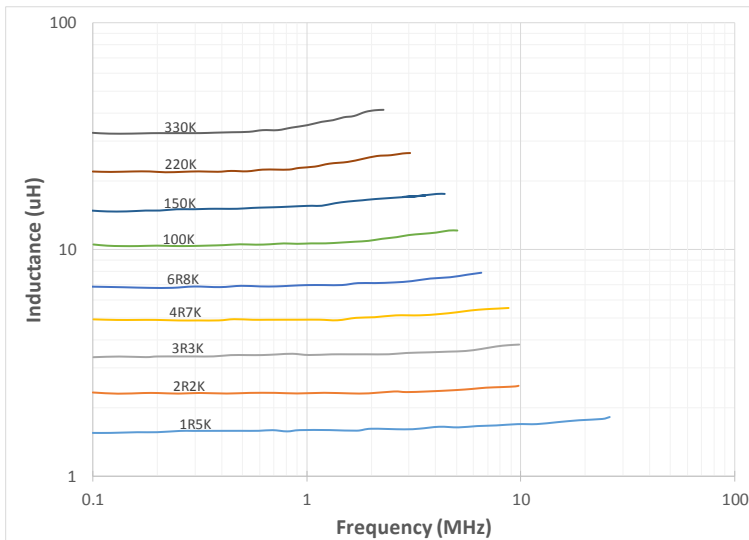


XFHCL2814H

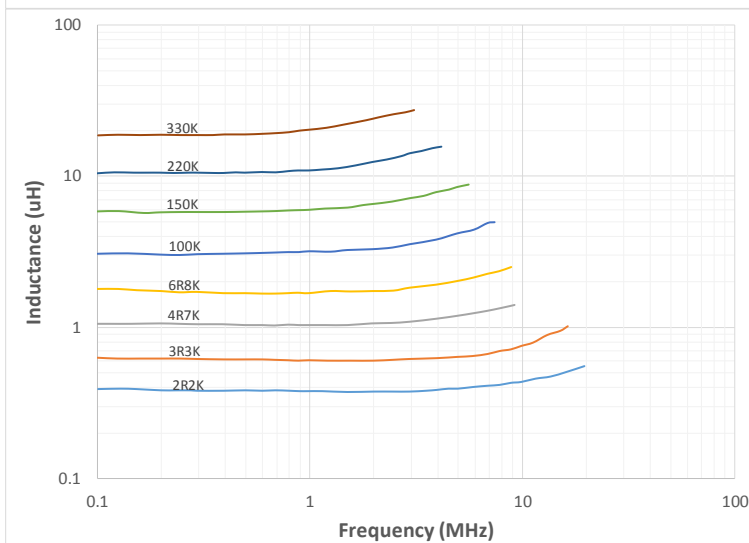


XFHCL2817H

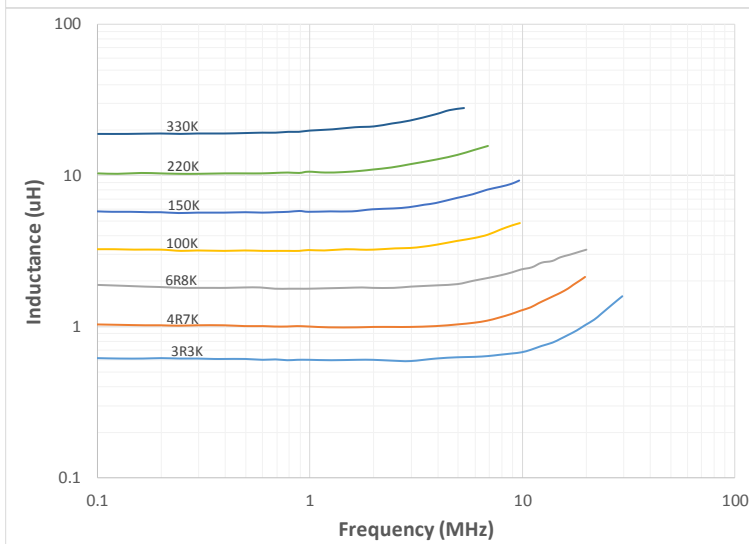
Inductance vs Frequency



XFHCL2814L

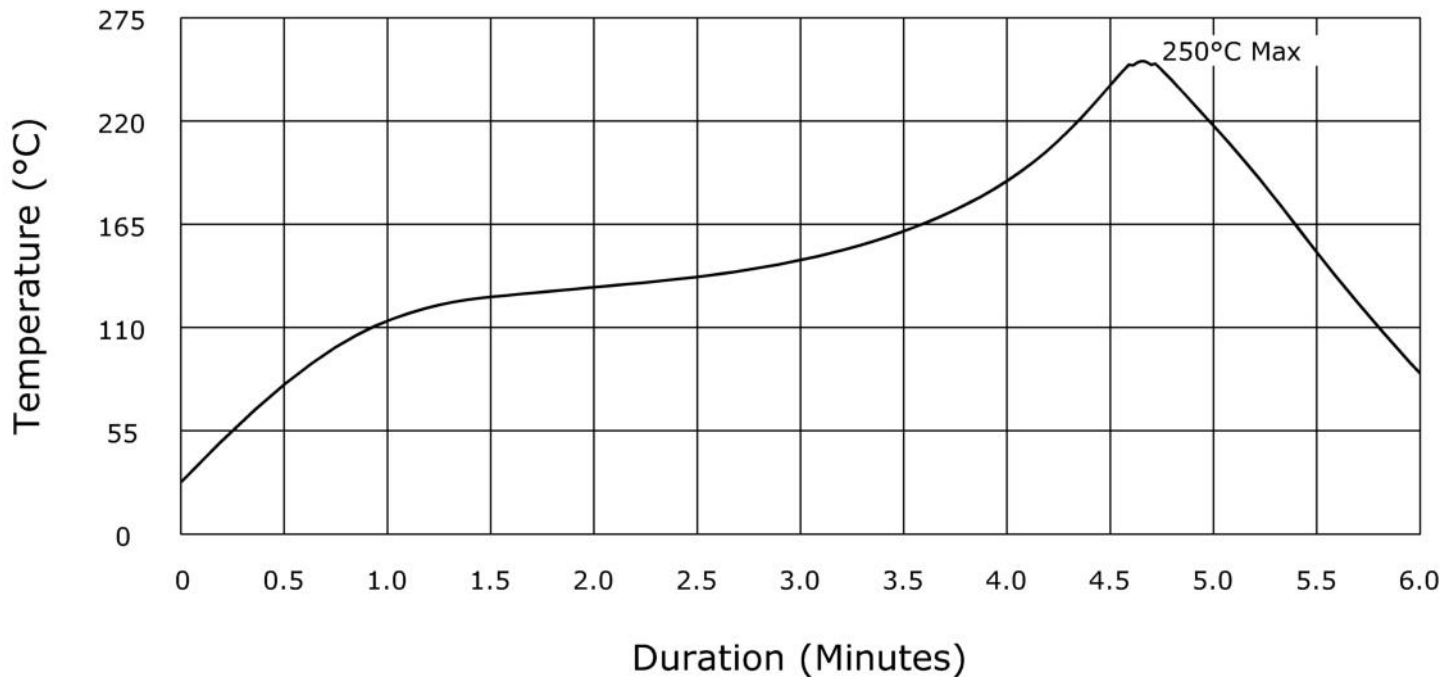


XFHCL2814H



XFHCL2817H

Recommended IR Reflow Profile:

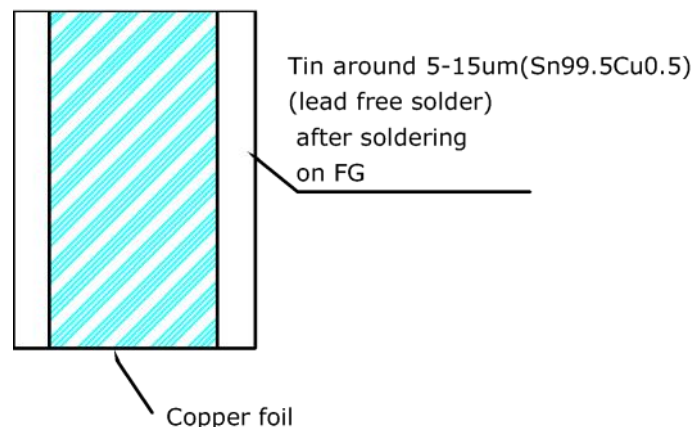


NOTES: Maximum duration at 250°+0/-5° shall be 10-15 seconds.

Maximum duration above 217° shall be 50-120 seconds.

ALL Temperatures refer to topside of the package, measured on the package body surface.

Pin Plating Cross-Section



Packaging:

