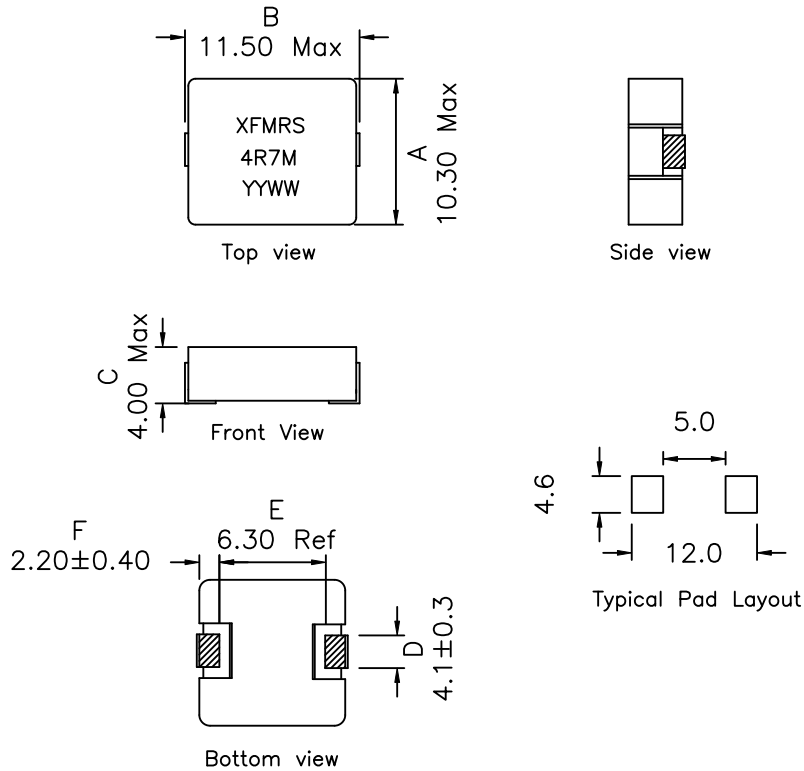
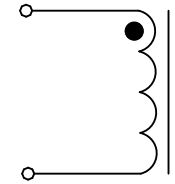


### 1. Mechanical Dimensions:



### 2. Schematic:



### 3. Electrical Specifications: @25°C

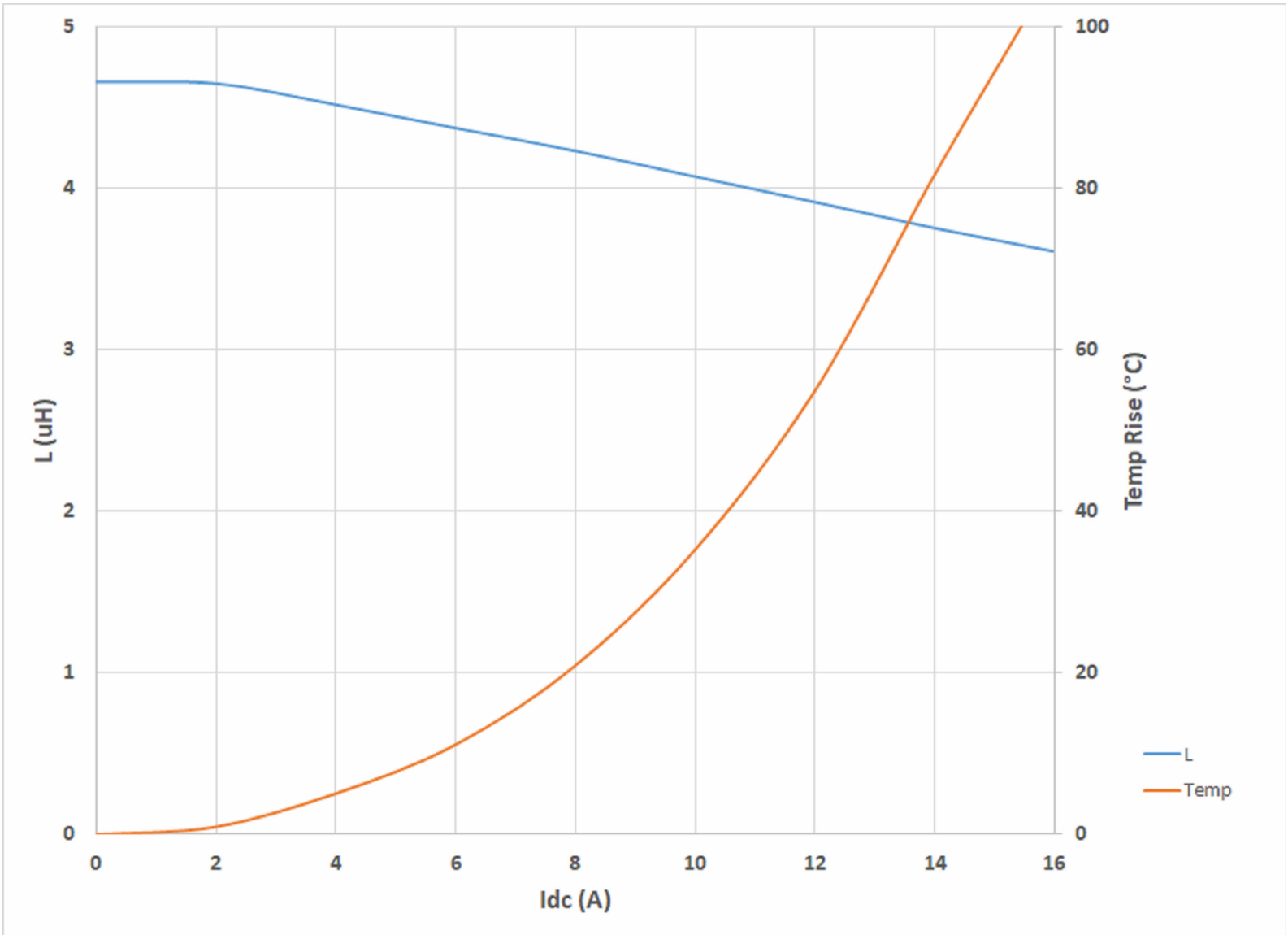
OCL: 4.7uH ± 20% @ 100KHz, 0.25V  
 Q: 30 Min @ 100KHz, 0.25V  
 DCR: 14.5 mOhms Typ, 16.5 mOhms Max  
 Isat: 14A (Based on 20% drop in OCL)  
 Irms: 8.0A (Based on 40°C Temp Rise)

#### Notes:

- Solderability: Leads shall meet MIL-STD-202G, Method 208H for solderability.
- Flammability: UL94V-0
- ASTM oxygen index: > 28%
- Insulation System: Class F 155°C. UL file E151556
- Operating Temperature Range: All listed parameters are to be within tolerance from -40°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Aqueous wash compatible
- SMD Lead Coplanarity: ±0.004" (0.102mm)
- Electrical and mechanical specifications 100% tested
- RoHS Compliant Component
- Recommended IR Reflow peak temp of 250C Max.
- AEC-Q200 Certified Product
- Outsourced item processed & controlled under XFMRS QA system

DOC. REV: A/6

<b>XFMRS®</b> www.XFMRS.com	Title: <b>INDUCTOR</b>		
	UNLESS OTHERWISE SPECIFIED	P/N: XFHCL11-4R7M	REV. A
TOLERANCES: .xxx ±0.25 Dimensions in MM	DWN.	Yuan	Jul-20-21
	CHK.	YK Liao	Jul-20-21
SHEET 1 OF 2	APP.	TCH	Jul-20-21

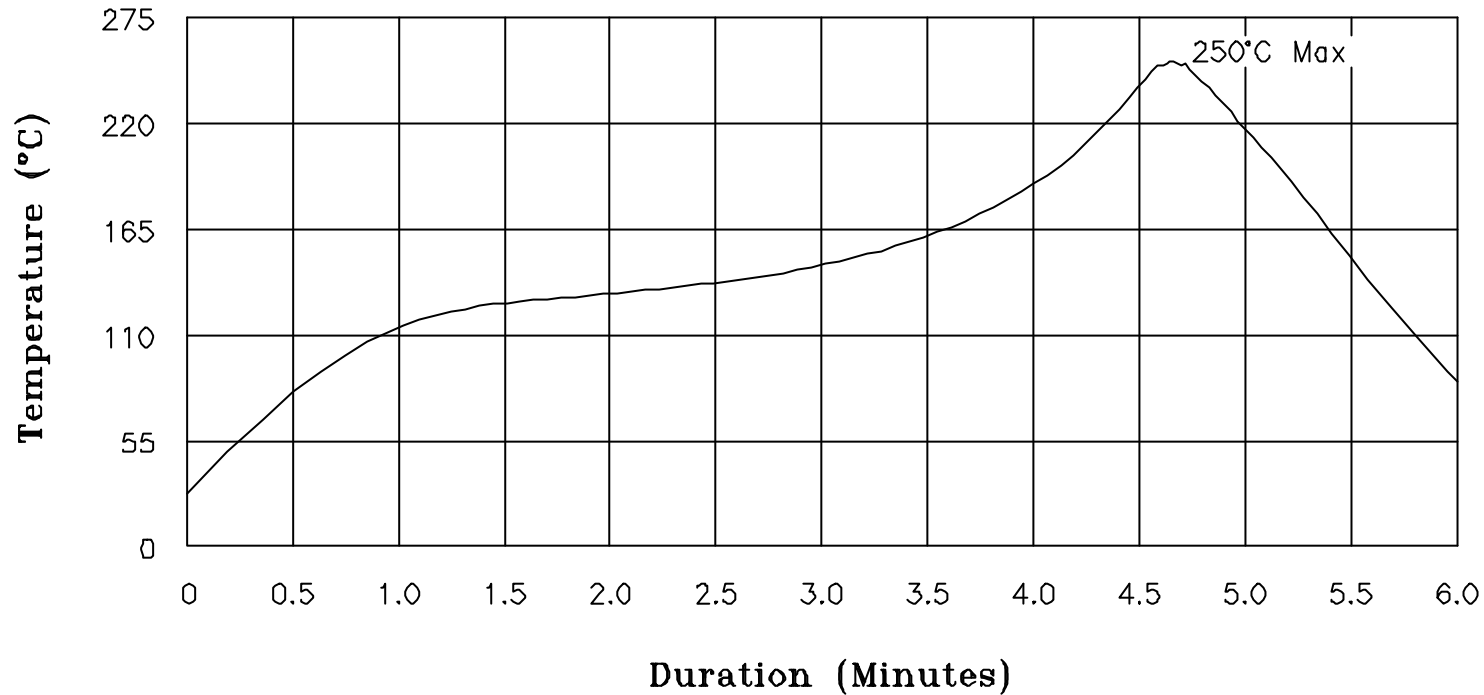


DOC. REV: A/6

<b>XFMRs®</b> www.XFMRs.com	Title: <b>INDUCTOR</b>		
	UNLESS OTHERWISE SPECIFIED TOLERANCES:		P/N: XFHCL11-4R7M
.xxx $\pm 0.25$ Dimensions in MM	DWN.	Yuan	Jul-20-21
	CHK.	YK Liao	Jul-20-21
	APP.	TCH	Jul-20-21
SHEET 2 OF 2			

# XFMRs

## Recommended Infrared Reflow Temperature Profile for RoHS Compliant Parts

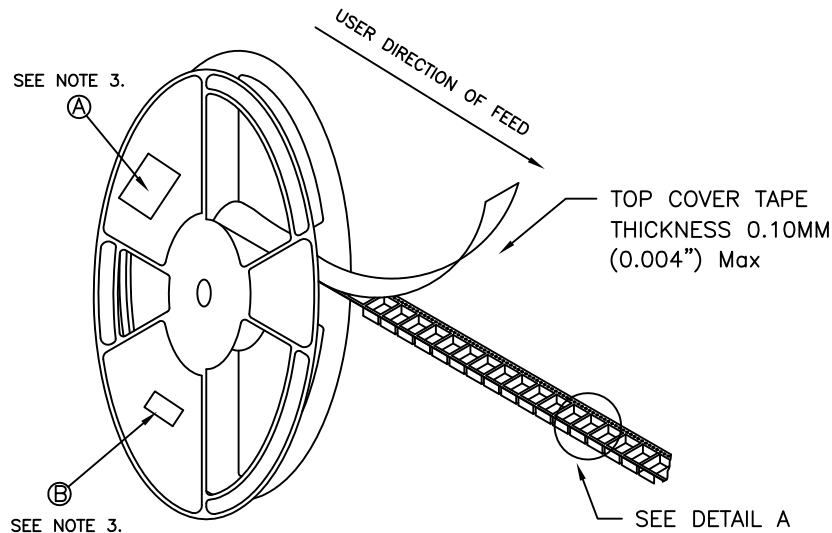


NOTES: Maximum duration at 250°+0/-5° shall be 10-15 seconds.  
 Maximum duration above 217° shall be 50-120 seconds.  
 ALL Temperatures refer to topside of the package, measured on the package body surface.

<b>XFMRs Inc</b> www.XFMRs.com	Title: <b>IR REFLOW CHART</b> <b>(RoHS Compliant parts)</b>			
	UNLESS OTHERWISE SPECIFIED TOLERANCES: N/A	P/N: N/A	REV. A	
	DWN.	Juan Mao	Dec-20-06	
	CHK.	YK Liao	Dec-20-06	
SHEET 1 OF 1	APP.	Joe Huff	Dec-20-06	

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# TAPE AND REEL SPECIFICATION:



REEL AND TAPE ORIENTATION

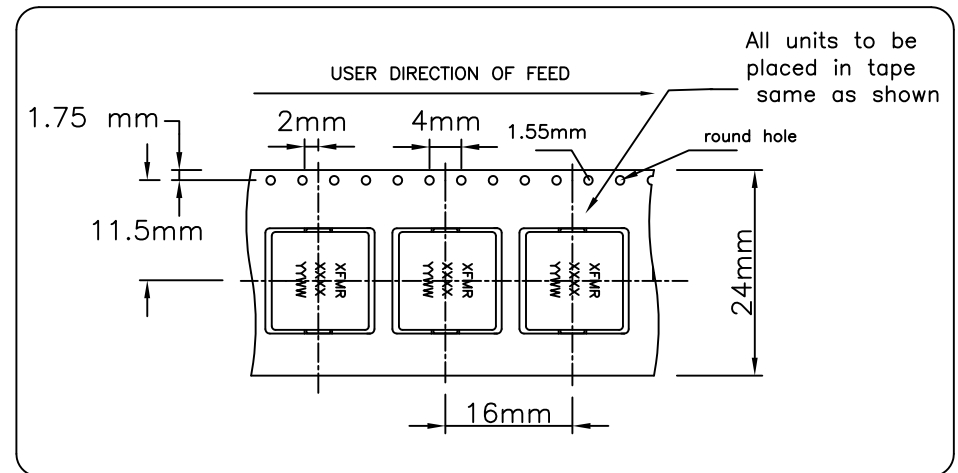
**13" REEL DIAMETER**

FOR ALL XFHCL11-XXXX SERIES

## NOTES:

- 1) PROCESS IN ACCORDANCE WITH EIA-481-2 STANDARDS
  - \* TAPE LEADER DIMENSION 15.30" MIN.
  - \* TAPE TRAILER DIMENSION 6.30" MIN.
- 2) PARTS SHOULD BE PACKAGED IN ACCORDANCE WITH ESD GUIDELINES IN EIA-541.
- 3) REEL LABEL: 'A' \* PART NUMBER
  - \* QUANTITY
  - \* DATE CODE
- 4) 500PCS PER 13" REEL

DETAIL A



DOC. REV. A/2

<b>XFMRs Inc</b>	Title: T&R SPEC		
UNLESS OTHERWISE SPECIFIED	P/N: XFHCL11 series		REV: A
TOLERANCES: .xxs ±xxxxx	DWN.	Kong	Oct-31-17
Dimensions in mm	CHK.	YK Liao	Oct-31-17
SHT 1 OF 1	APP.	GL	Oct-31-17

**PROPRIETARY**

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# Reliability Test

XFHCL11 Series

## 1) Mechanical Shock

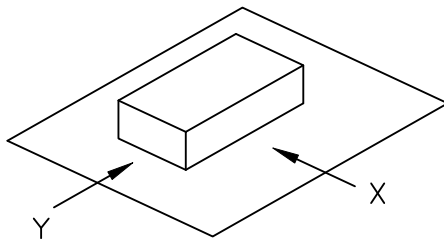
Inductance deviation within  $\pm 5\%$  after being dropped once with  $981\text{m/s}^2$  (100G) shock upon a rubber block method shock testing machine, three different orientations

## 2) Mechanical Vibration

Inductance deviation within  $\pm 5\%$  after vibration for 1 hour, in each of 3 orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes

## 3) Terminal Strength

After soldering, push in two directions of X and Y between copper plate and terminals of coil. 5.0N, 60 seconds. Terminal should not peel off



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XFMRS Inc.	Title: Mechanical Reliability		
	P/N: XFHCL11		
	DWN.	Xiang	Aug-06-20
	CHK.	YK Liao	Aug-06-20
	APP.	DDC	Aug-06-20