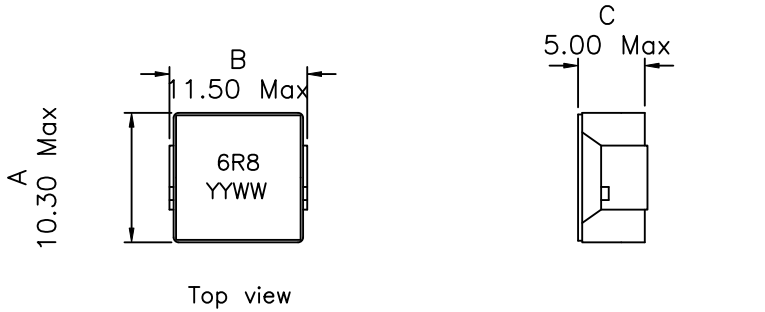
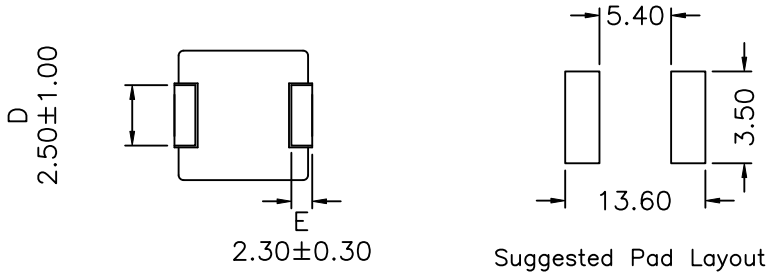
1. Mechanical Dimensions:



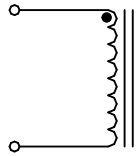
Top view



Bottom view

Suggested Pad Layout

2. Schematic:



3. Electrical Specifications: @25°C

OCL: 6.8uH±20% @100KHz 1.0V

Q: tbd Min @100KHz 0.1V

DCR: 21.0 mOhms Max

Isat: 15.0A (Based on 20% Typ drop in OCL)

Irms: 9.5A (Based on 40°C Typ Temp. Rise)

SRF: tbd Min

Notes:

1. Solderability: Leads shall meet MIL-STD-202G, Method 208H for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index: > 28%
4. Insulation System: Class F 155°C. UL file E151556
5. Operating Temperature Range: -55°C to +125°C
6. Storage Temperature Range: -40°C to +105°C
7. Aqueous wash compatible
8. SMD Lead Coplanarity: ±0.004"(0.102mm)
9. Electrical and mechanical specifications 100% tested
10. RoHS Compliant Component
11. Recommended IR Reflow peak temp of 260°C Max.
12. AEC-Q200 Certified Product
13. Outsourced item processed & controlled under XFMRS QA system

DOC REV.: A/-

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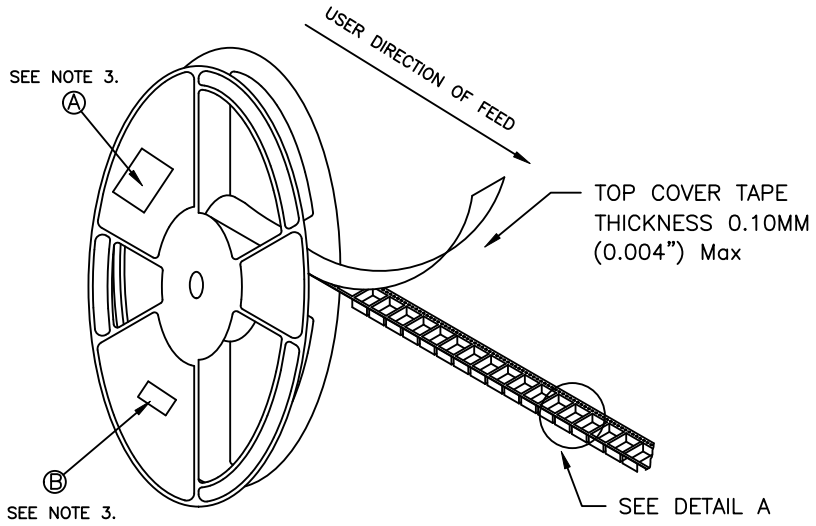
XFMRS® www.XFMRS.com	Title: INDUCTOR		
UNLESS OTHERWISE SPECIFIED TOLERANCES: .xx ±0.25 Dimensions in MM	P/N:XFHCL12-6R8M		REV. A
	DWN.	Yu	Nov-16-23
	CHK.	YK Liao	Nov-16-23
SHEET 1 OF 2	APP.	VL	Nov-16-23

TAPE AND REEL SPECIFICATION:



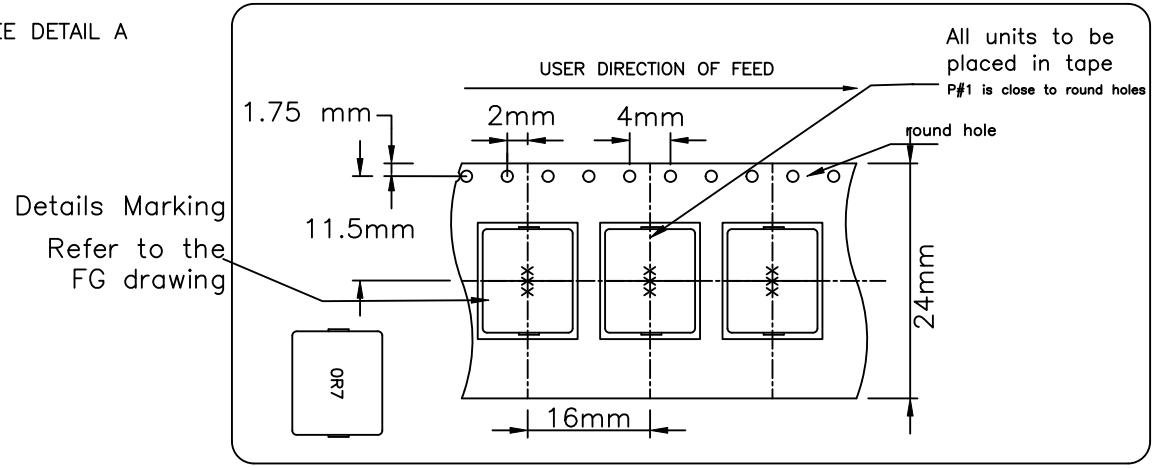
REEL AND TAPE ORIENTATION

13" REEL DIAMETER

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



XFMRS Inc www.XFMRS.com	Title: T&R SPEC		
UNLESS OTHERWISE SPECIFIED TOLERANCES: .xxs ±0.05 Dimensions in mm	P/N:XFHCL12 Series		REV: A
	DWN.	Kong	Nov-16-23
	CHK.	YK Liao	Nov-16-23
SHT 2 OF 2	APP.	VL	Nov-16-23

DOC REV: A/1

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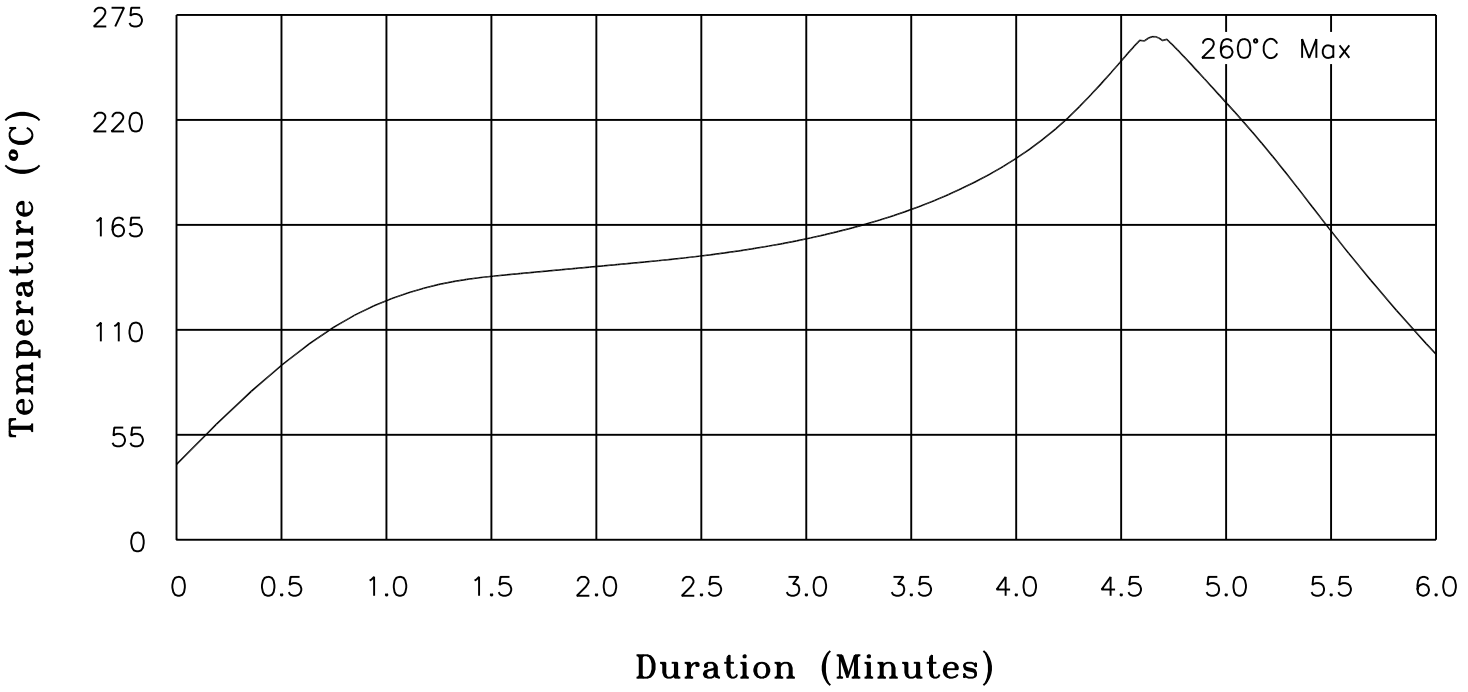
XFMRS

Recommended Infrared Reflow Temperature Profile for RoHS Compliant Parts



NOTES: Maximum duration at 260°+0/−5° shall be 10−15 seconds.
Maximum duration above 217° shall be 60−150 seconds.
ALL Temperatures refer to topside of the package, measured on the package body surface.

XFMRS Inc www.XFMRS.com	Title: IR REFLOW CHART (RoHS Compliant parts)		
UNLESS OTHERWISE SPECIFIED TOLERANCES: N/A	P/N: N/A		REV. A
	DWN.	Juan Mao	Jan−16−05
	CHK.	YK Liao	Jan−16−05
SHEET 1 OF 1	APP.	MS	Jan−16−05

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