



XFSMC2-xxx Series High-Current Cube Inductors

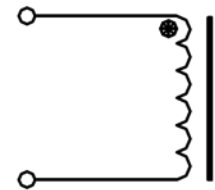
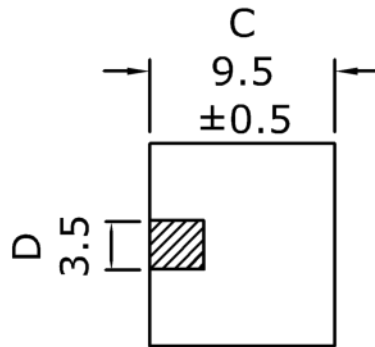
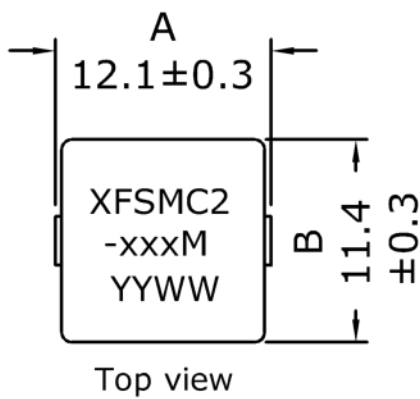
- ◆ Inductance Range: 0.22uH—10.0uH
- ◆ Current Ratings: 9.0A—27.0A
- ◆ Surface Mount Package
- ◆ Custom Values Available Upon Request

Part Number	Inductance 100KHz, 10mA (uH) ±20%	Rated Current (40C temp rise)	Saturation Current (30% drop in OCL)	DCR (mΩ) Typ	DCR (mΩ) Max	SRF MHz Typ
XFSMC2-R22M	0.22	27.0A	60.0A	1.10	1.50	280
XFSMC2-R33M	0.33	27.0A	55.0A	1.10	1.50	214
XFSMC2-R47M	0.47	26.0A	48.0A	1.35	1.85	138
XFSMC2-R68M	0.68	26.0A	38.0A	1.35	1.85	108
XFSMC2-R82M	0.82	24.0A	36.0A	1.85	2.50	99
XFSMC2-1R0M	1.00	24.0A	32.0A	1.85	2.50	96
XFSMC2-1R5M	1.50	19.5A	27.0A	2.95	3.50	92
XFSMC2-2R2M	2.20	18.0A	23.0A	3.90	4.30	64
XFSMC2-3R3M	3.30	17.0A	17.0A	5.20	5.70	44
XFSMC2-4R7M	4.70	15.5A	17.0A	7.25	7.90	43
XFSMC2-6R8M	6.80	13.0A	13.0A	10.15	11.0	42
XFSMC2-8R2M	8.20	13.0	12.0	10.60	11.8	34
XFSMC2-100M	10.0	9.0A	10.0A	15.35	16.7	29

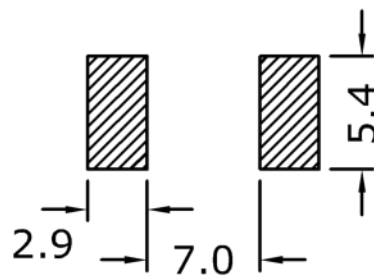
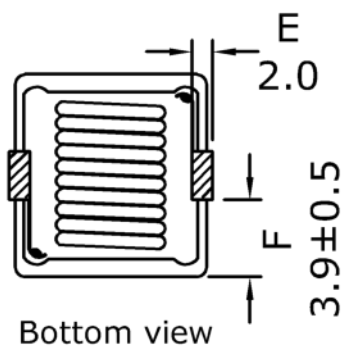
Notes:

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

Mechanical Dimensions



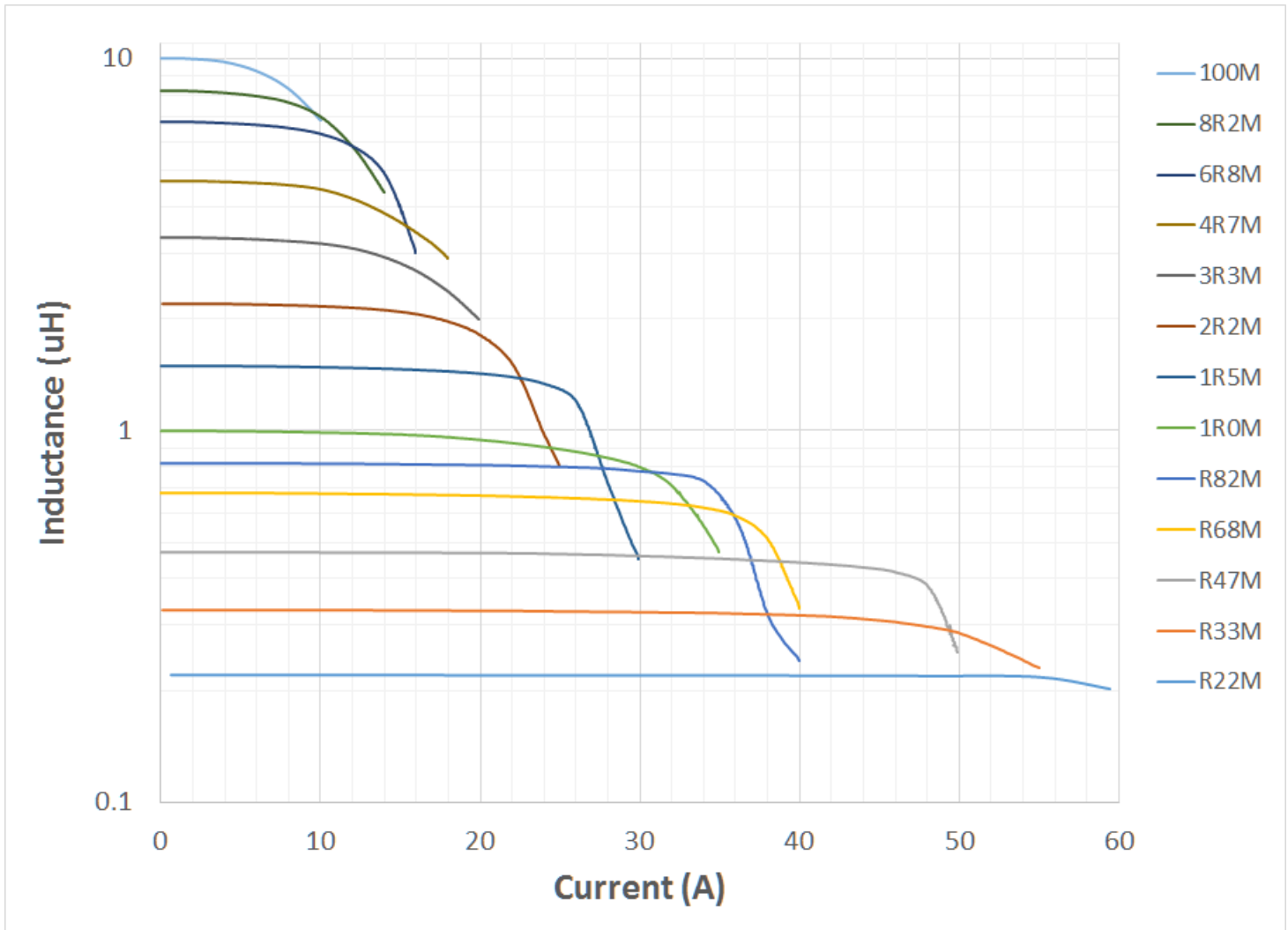
Schematic



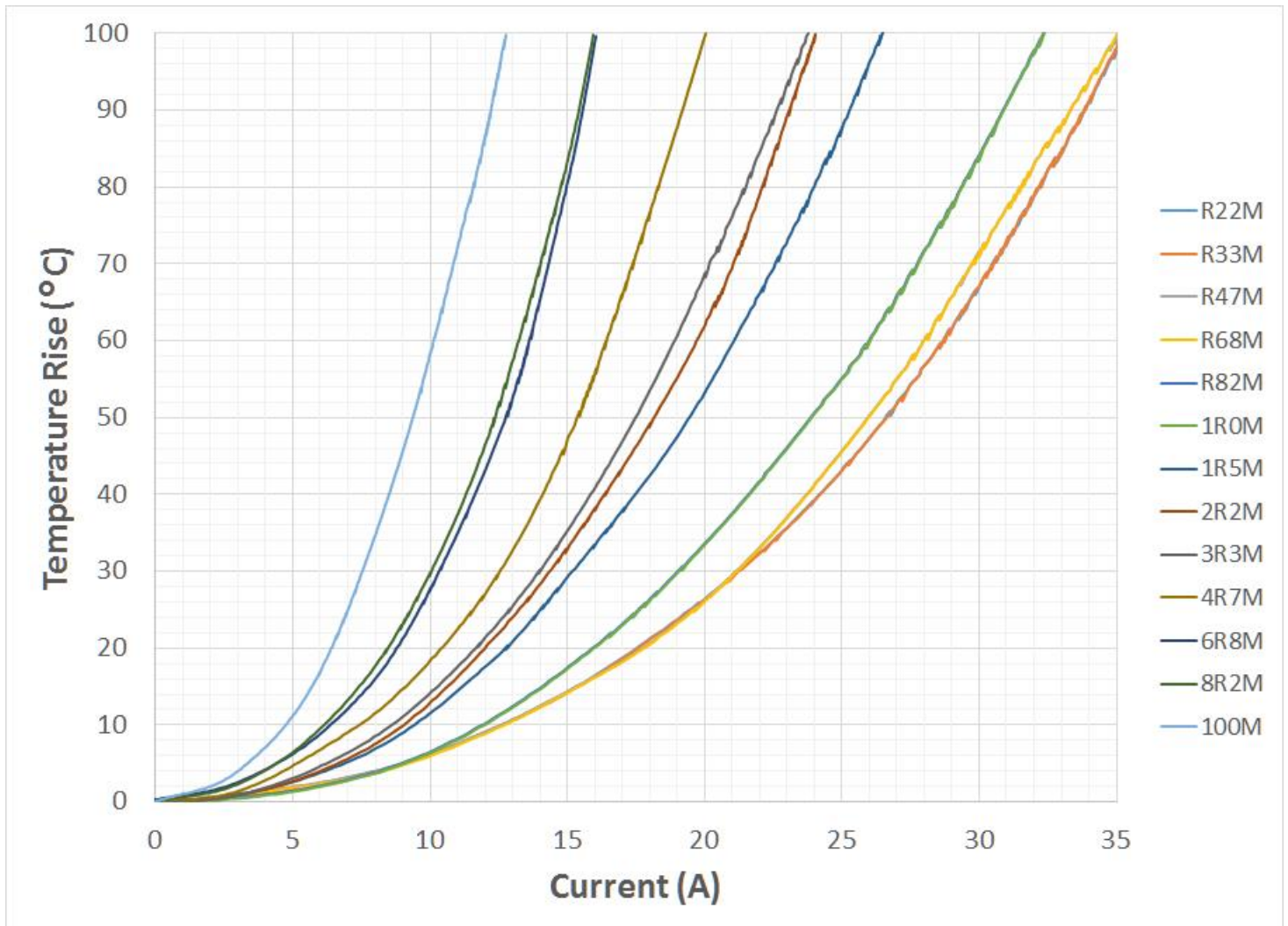
Typical Pad Layout (Min)

TOLERANCE:
.xx ± 0.25
Dimensions in MM

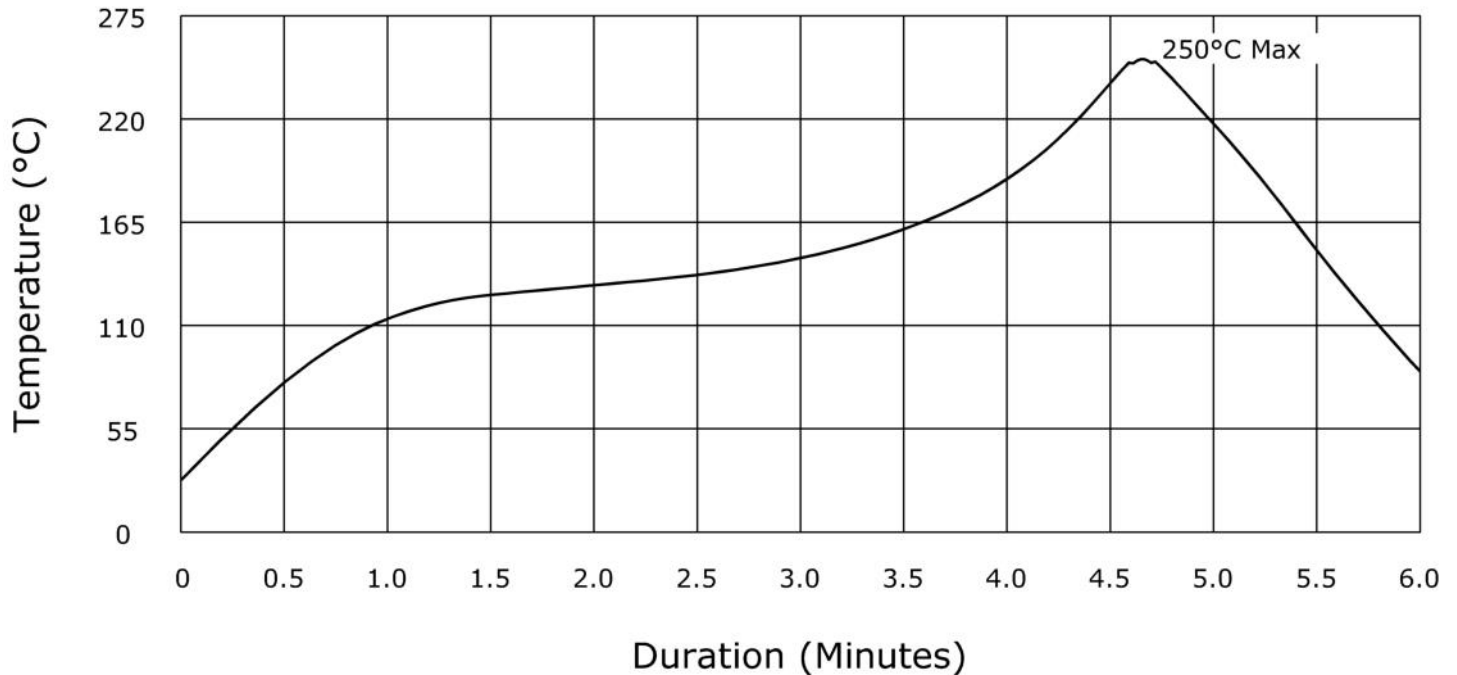
Inductance vs Current



Temperature vs Current



Recommended IR Reflow Profile:

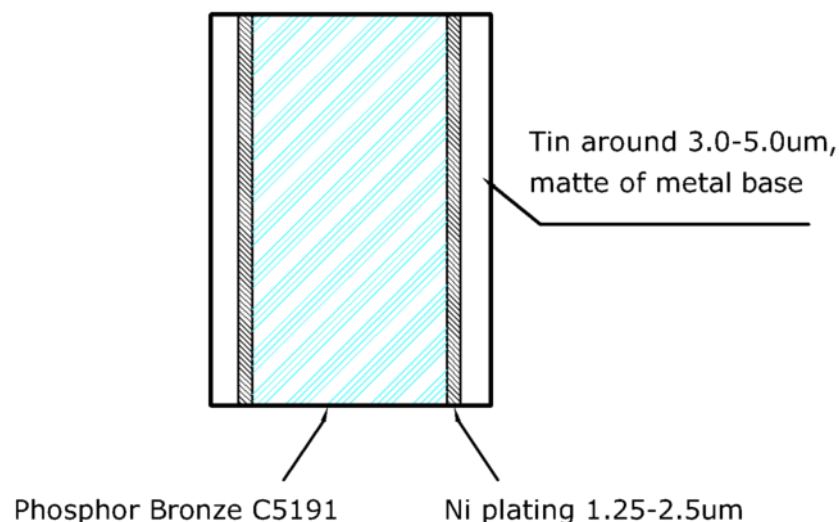


NOTES: Maximum duration at 250°+0/-5° shall be 10-15 seconds.

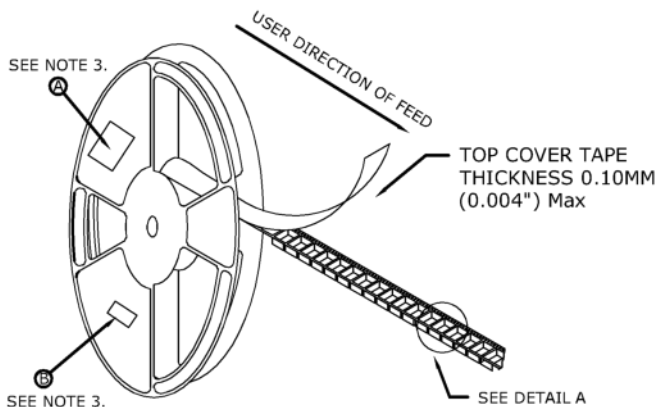
Maximum duration above 217° shall be 50-120 seconds.

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

Pin Plating Cross-Section

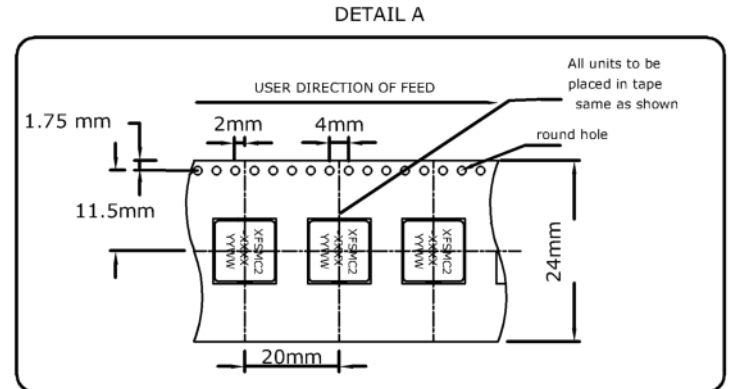


Packaging:



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
 - * 'B'- ANTI-STATIC CAUTION LABEL
- 4) 250pcs PER 13" REEL