

XFEB100505 Series

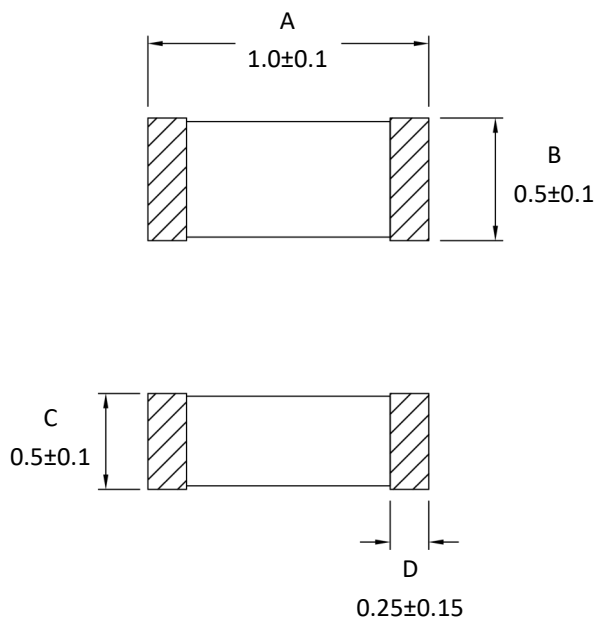
Ferrite Bead

- Excellent performance in high-frequency applications
- Standard 0402 (1005 metric) size
- Excellent solderability
- RoHS compliant component

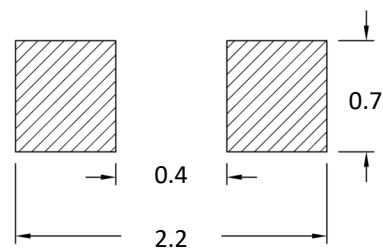


Weight: 0.0008 grams

Mechanical Dimensions



Suggested Pad Layout



(dimensions in mm)

Electrical Characteristics

Part Number	Impedance ¹		DCR Max Ω	Rated Current mA
	Ω	Tol $\pm$		
XFEB100505-100	10	25%	0.05	500
XFEB100505-100-2A	10	25%	0.03	2000
XFEB100505-220-0.5A	22	25%	0.20	500
XFEB100505-300	30	25%	0.30	500
XFEB100505-300-2A	30	25%	0.15	2000
XFEB100505-300-2.2A	30	25%	0.04	2200
XFEB100505-470	47	25%	0.40	200
XFEB100505-600	60	25%	0.40	200
XFEB100505-600-1A	60	25%	0.20	1000
XFEB100505-600-3A	60	25%	0.04	3000
XFEB100505-680	68	25%	0.31	400
XFEB100505-700-0.6A	70	25%	0.15	600
XFEB100505-750	75	25%	0.50	200
XFEB100505-800	80	25%	0.50	200
XFEB100505-121	120	25%	0.50	200
XFEB100505-121-0.45A	120	25%	0.24	450
XFEB100505-121-0.5A	120	25%	0.25	500
XFEB100505-121-1.5A	120	25%	0.09	1200
XFEB100505-221	220	25%	0.70	100
XFEB100505-221-0.7A	220	25%	0.28	700
XFEB100505-221-0.8A	220	25%	0.35	800
XFEB100505-301	300	25%	0.80	100

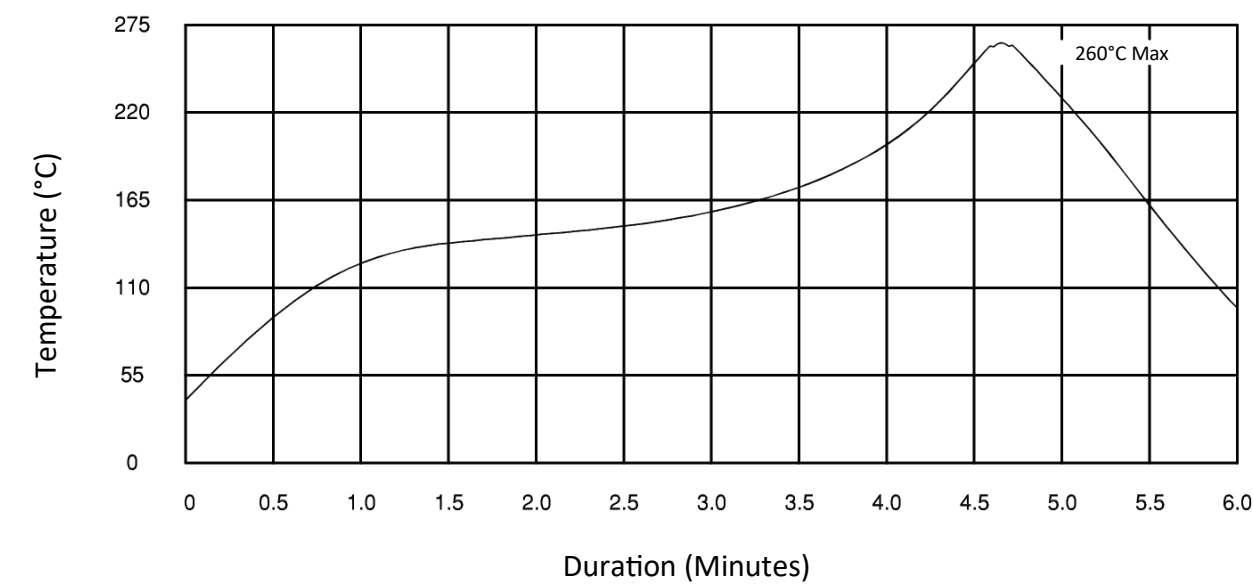
Electrical Characteristics (cont.)

Part Number	Impedance ¹		DCR Max Ω	Rated Current mA
	Ω	Tol $\pm$		
XFEB100505-471	470	25%	0.90	100
XFEB100505-601	600	25%	1.00	100
XFEB100505-102	1000	25%	1.30	100
XFEB100505-102-0.05A	1000	25%	1.50	50
XFEB100505-102-0.3A	1000	25%	0.75	300
XFEB100505-152	1500	25%	1.50	50

Notes:

1. Impedance tested at 100MHz, 0.1V
2. All electrical specifications tested at 25°C
3. Solderability: Leads shall meet MIL-STD-202, Method 208D for solderability
4. Flammability: UL94V-0
5. ASTM Oxygen Index: > 28%
6. Insulation System: Class F 155°C. UL File E151556
7. Operating Temperature: -55°C to +125°C
8. Storage Temperature: -55°C to +125°C
9. Aqueous wash compatible
10. SMD Lead Coplanarity: $\pm 0.004"$ (0.102mm)
11. Electrical and mechanical specifications 100% tested
12. RoHS Compliant Component
13. Recommended IR reflow peak temperature of 260°C

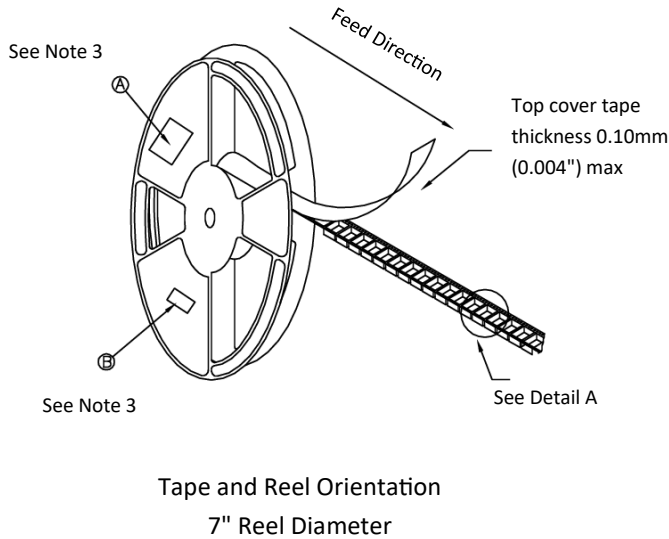
Recommended IR Reflow Profile



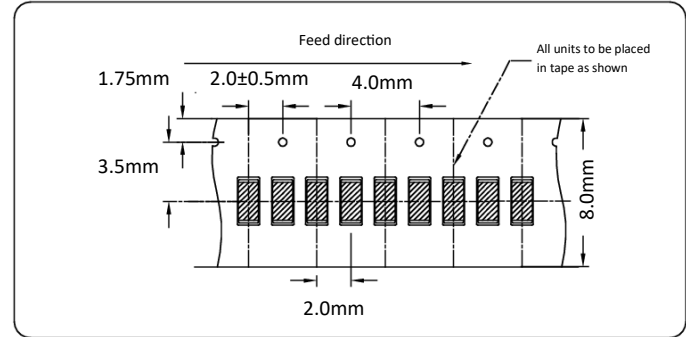
Notes:

- Maximum duration at 260°C +0/-5° with 10 seconds max
- Maximum duration above 217°C shall be 60-150 seconds
- All temperatures refer to topside of the package, measured on the package body surface

Packaging



DETAIL A



Notes:

1. Process in accordance with EIA-481-2 standards
 - Tape leader dimension 15.30" minimum
 - Tape trailer dimension 6.30" minimum
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. **10,000 pcs per 7" reel**

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XFMRS

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