2200RM Series

Bobbin Wound Surface Mount Inductors



FEATURES

- RoHS compliant
- Up to 2.52A I_{DC}
- 10µH to 68mH
- Low DC resistance
- Surface mount
- Compact size
- Tape and reel packaging
- Compatible with RoHS soldering systems
- Backward compatible with Sn/Pb soldering systems
- Custom parts available

DESCRIPTION

The 2200RM Series is a surface mount alternative to our 2200R Series. It is a general purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high density applications where a chip inductor will not cope with the power requirement.

SELECTION GUIDE

Order Code	Inductance, (1kHz, 0.1V_{AC}) ±10% µH	DC Current[1] Max. A	DC Resistance Max. Ω
	Recommended	In Production	
22R223MC	22.0	1.81	0.09
22R333MC	33.0	1.31	0.14
22R105MC	1.0mH	0.21	3.63
22R335MC	3.3mH	0.12	10.0
22R106MC	10.0mH	0.068	37.4
22R226MC	22.0mH	0.044	82.5
22R336MC	33.0mH	0.037	110.0
22R476MC	47.0mH	0.033	154.0
22R686MC	68.0mH	0.026	242.0
	To be discontinued		
22R103MC	10.0	2.52	0.05
22R153MC	15.0	2.08	0.07
22R473MC	47.0	0.99	0.22
22R683MC	68.0	0.84	0.28
22R104MC	100.0	0.80	0.39
22R154MC	150.0	0.64	0.54
22R224MC	220.0	0.50	0.83
22R334MC	330.0	0.42	1.21
22R474MC	470.0	0.37	1.65
22R684MC	680.0	0.30	2.64
22R155MC	1.5mH	0.16	6.49
22R225MC	2.2mH	0.14	8.58
22R475MC	4.7mH	0.10	13.2
22R685MC	6.8mH	0.077	22.0
22R156MC	15.0mH	0.055	49.5

TEMPERATURE CHARACTERISTICS

Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 150°C

RoHS COMPLIANT

For full details go to
www.murata.com/en-global/products/power/rohs

All specifications typical at T_A=25°C unless otherwise specified.

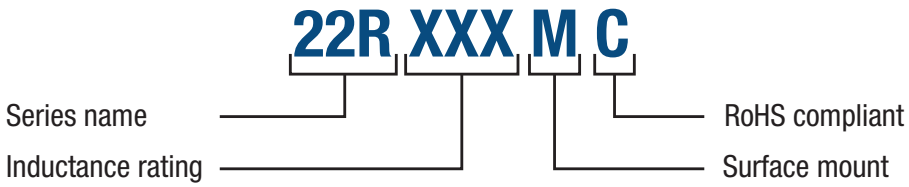
1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.

RoHS COMPLIANCE, MSL, PSL AND REFLOW SOLDERING INFORMATION

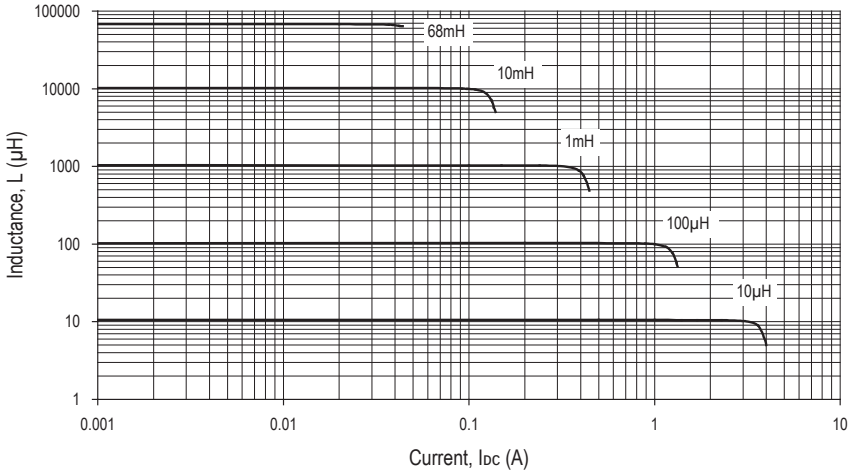
This series is compatible with Pb-Free soldering systems and is also backward compatible with Sn/Pb soldering systems. The 2200RM series can be soldered in accordance with J-STD-020 and have a classification temperature of 245°C with a limitation on the time above liquidus (217°C) which for this series is 115 sec max and moisture sensitivity level 1. The termination finish on this product is Hot Dipped Tin.

For further information please visit https://www.murata.com/en-global/products/power/rohs

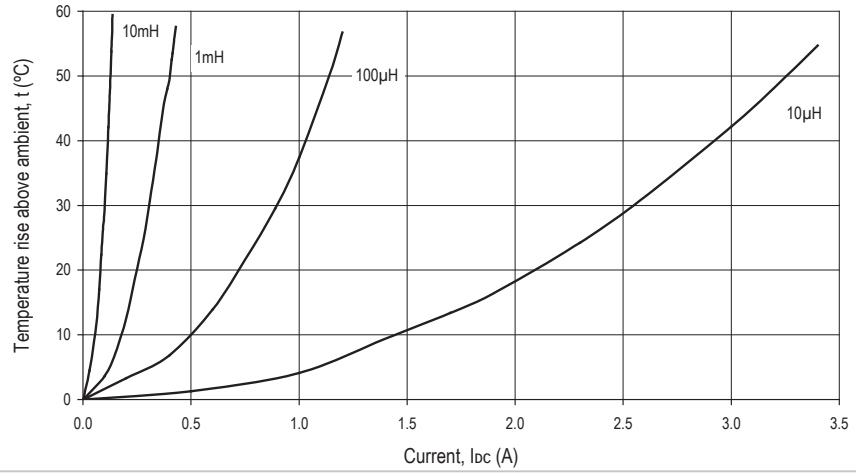
PART NUMBER STRUCTURE



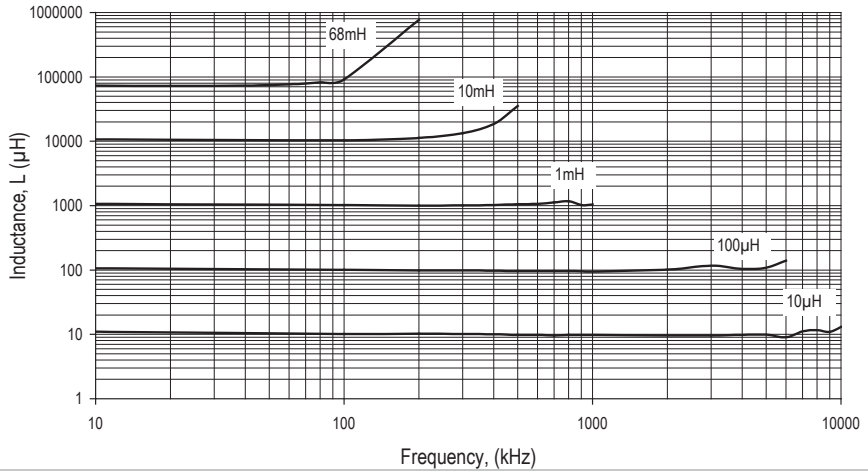
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

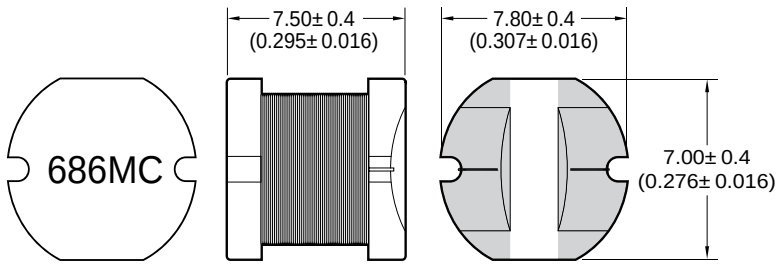


INDUCTANCE Vs FREQUENCY



PACKAGE SPECIFICATIONS

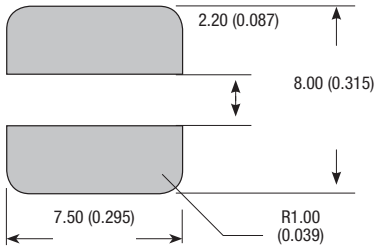
MECHANICAL DIMENSIONS



Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).

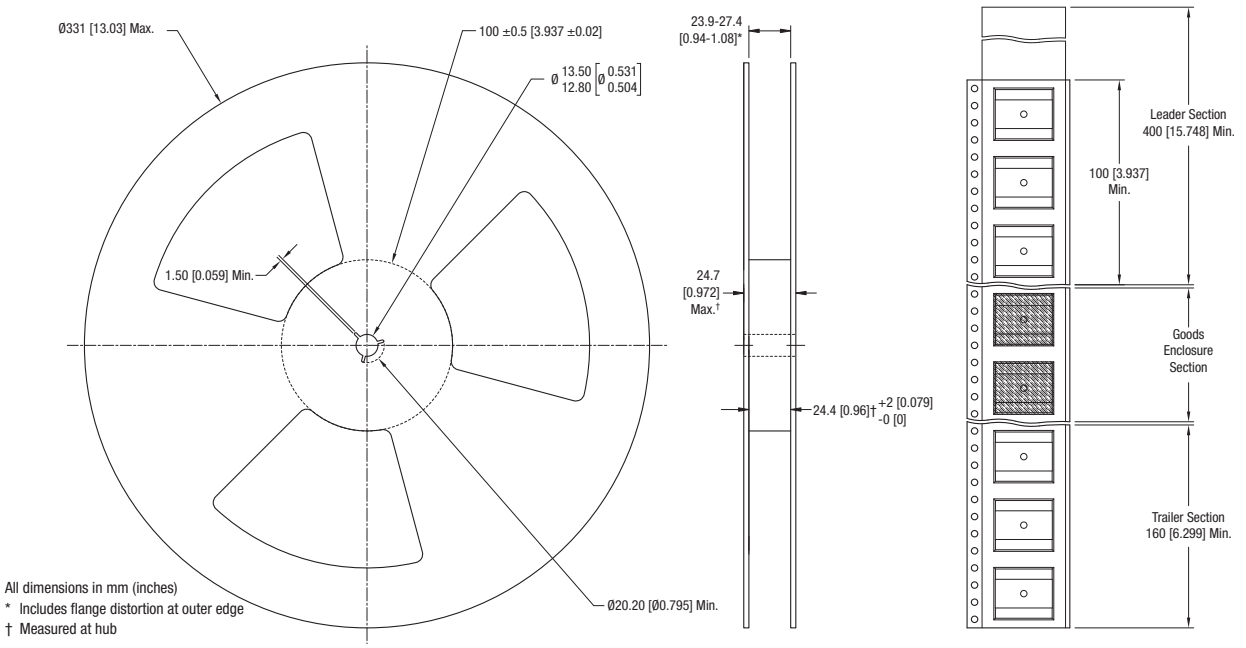
Package weight: 1.30g Typ.

RECOMMENDED FOOTPRINT DETAILS



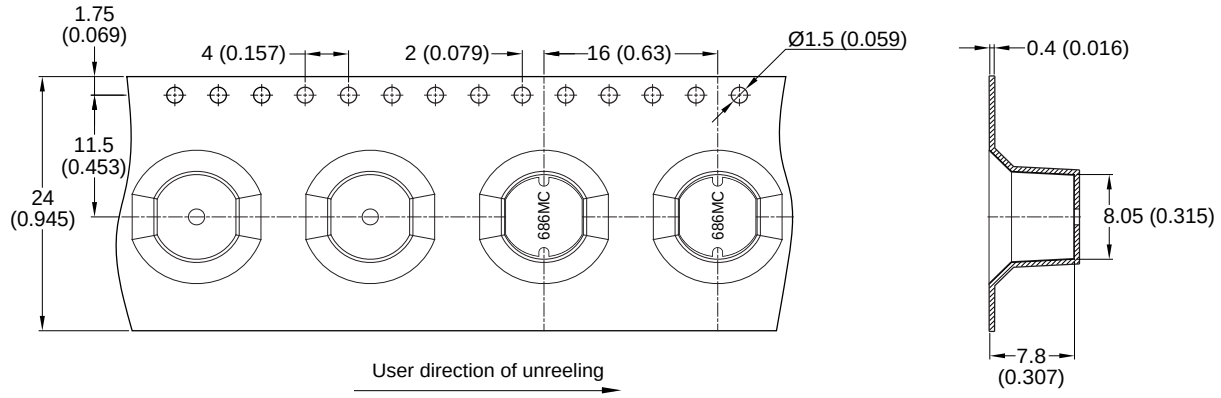
TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



All dimensions in mm (inches)
* Includes flange distortion at outer edge
† Measured at hub

TAPE OUTLINE DIMENSIONS



Reel quantity: 500
All dimensions in mm (inches)

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- Medical equipment
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- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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