



### FEATURES

- RoHS compliant
- Up to 2.52A I<sub>DC</sub>
- 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 <sub>AC</sub> ) | DC Current <sup>1</sup> | DC Resistance |
|------------|-----------------------------------------|-------------------------|---------------|
|            | ±10%<br>μH                              | Max.<br>A               | Max.<br>Ω     |
| 22R103MC   | 10.0                                    | 2.52                    | 0.05          |
| 22R153MC   | 15.0                                    | 2.08                    | 0.07          |
| 22R223MC   | 22.0                                    | 1.81                    | 0.09          |
| 22R333MC   | 33.0                                    | 1.31                    | 0.14          |
| 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          |
| 22R105MC   | 1.0mH                                   | 0.21                    | 3.63          |
| 22R155MC   | 1.5mH                                   | 0.16                    | 6.49          |
| 22R225MC   | 2.2mH                                   | 0.14                    | 8.58          |
| 22R335MC   | 3.3mH                                   | 0.12                    | 10.0          |
| 22R475MC   | 4.7mH                                   | 0.10                    | 13.2          |
| 22R685MC   | 6.8mH                                   | 0.077                   | 22.0          |
| 22R106MC   | 10.0mH                                  | 0.068                   | 37.4          |
| 22R156MC   | 15.0mH                                  | 0.055                   | 49.5          |
| 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         |

### ABSOLUTE MAXIMUM RATINGS

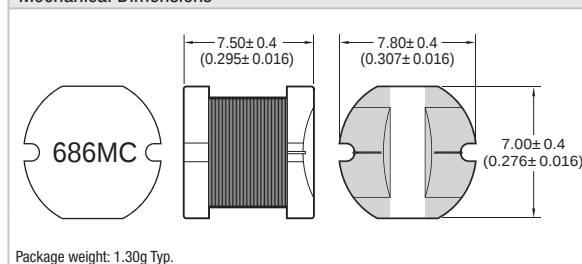
|                                      |                |
|--------------------------------------|----------------|
| Operating free air temperature range | -40°C to 85°C  |
| Storage temperature range            | -40°C to 150°C |

### SOLDERING INFORMATION<sup>2</sup>

|                                         |                |
|-----------------------------------------|----------------|
| Peak reflow temperature                 | 250°C          |
| Pin finish                              | Hot dipped tin |
| Moisture sensitivity level <sup>3</sup> | 1              |

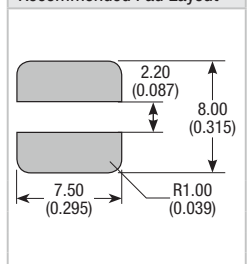
### PACKAGE SPECIFICATIONS

#### Mechanical Dimensions



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

#### Recommended Pad Layout



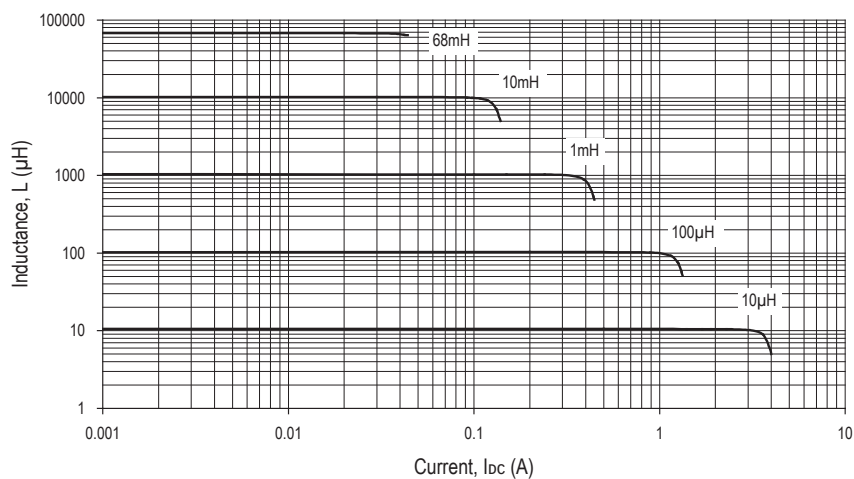
All specifications typical at T<sub>A</sub> = 25°C

- 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.
- 2 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)
- 3 When tested to moisture sensitivity level 1, as described per IPC/JEDEC J-STD-020D, products passed electrical testing, package coplanarity and visual inspection.

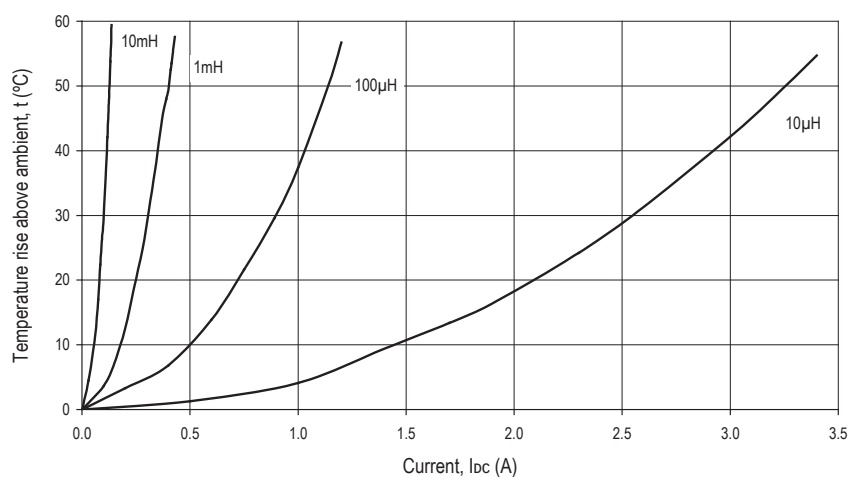


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

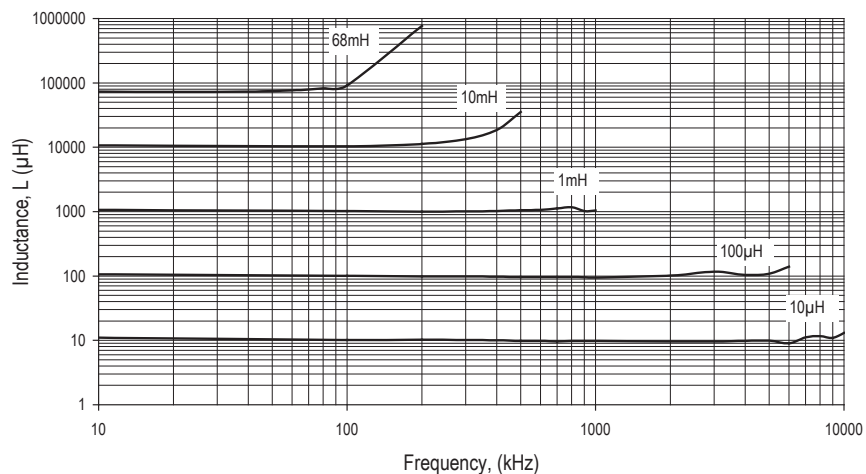
## INDUCTANCE Vs CURRENT



## TEMPERATURE Vs CURRENT

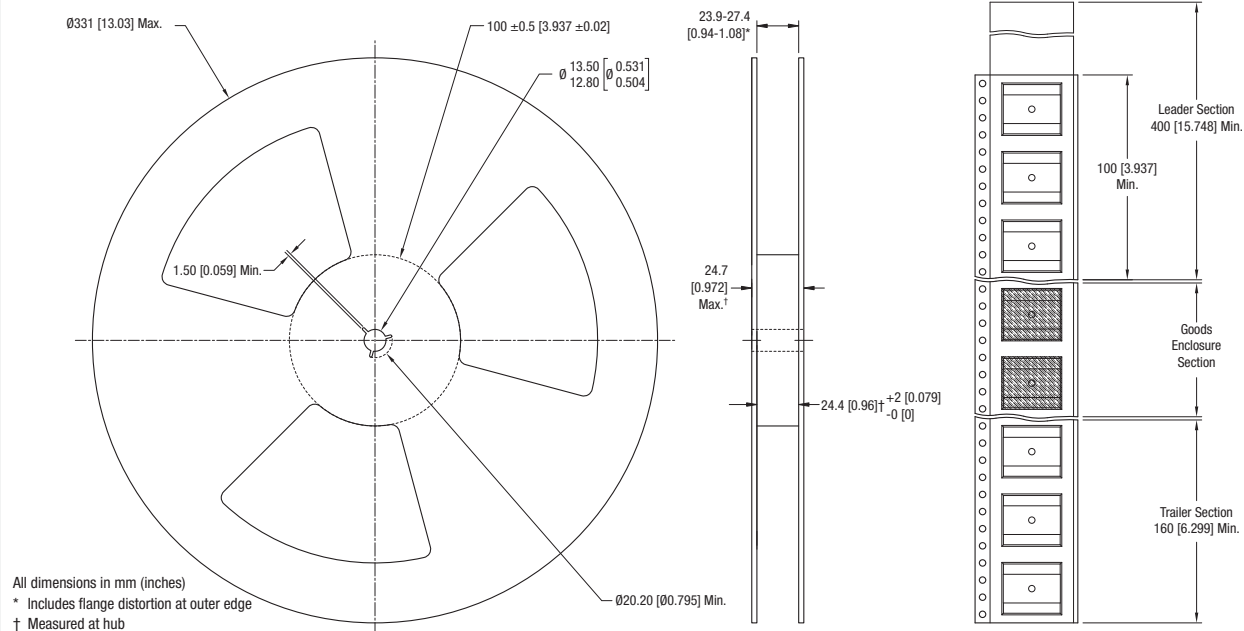


## INDUCTANCE Vs FREQUENCY

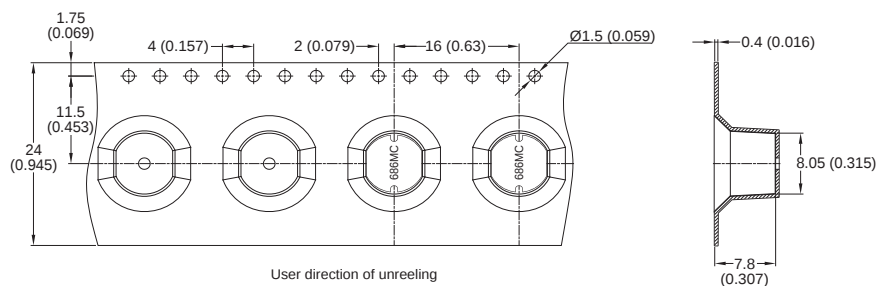


## TAPE & REEL SPECIFICATIONS

### REEL OUTLINE DIMENSIONS



### TAPE OUTLINE DIMENSIONS



Reel quantity: 500  
 All dimensions in mm (inches)