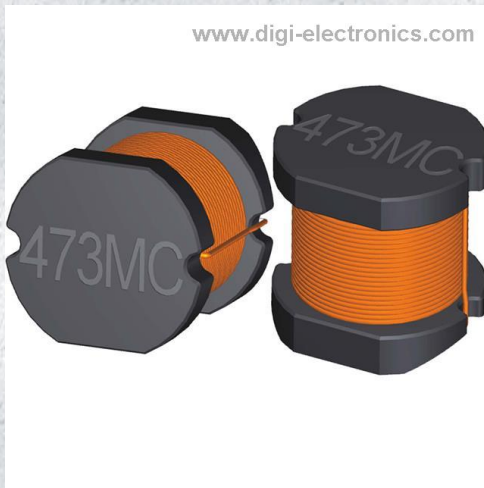


22R474MC Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	22R474MC-DG
Manufacturer	Murata Power Solutions Inc.
Manufacturer Product Number	22R474MC
Description	FIXED IND 470UH 370MA 1.65OHM SM
Detailed Description	470 μ H Unshielded Wirewound Inductor 370 mA 1.65Ohm Max Nonstandard



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

22R474MC

Series:

2200RM

Type:

Wirewound

Inductance:

470 μ H

Current Rating (Amps):

370 mA

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.307" L x 0.276" W (7.80mm x 7.00mm)

Base Product Number:

22R

Manufacturer:

Murata Power Solutions Inc.

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 10%

Current - Saturation (Isat):

-

DC Resistance (DCR):

1.650hm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.311" (7.90mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



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})	DC Current ¹	DC Resistance
	±10% μH	Max. A	Max. 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

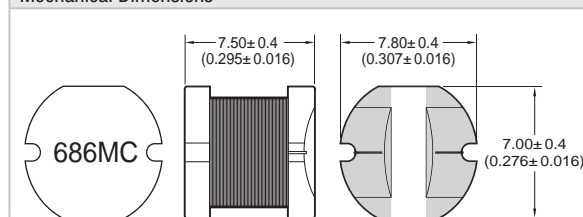
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 150°C

SOLDERING INFORMATION²

Peak reflow temperature	250°C
Pin finish	Hot dipped tin
Moisture sensitivity level ³	1

PACKAGE SPECIFICATIONS

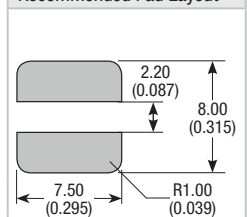
Mechanical Dimensions



Package weight: 1.30g Typ.

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

Recommended Pad Layout



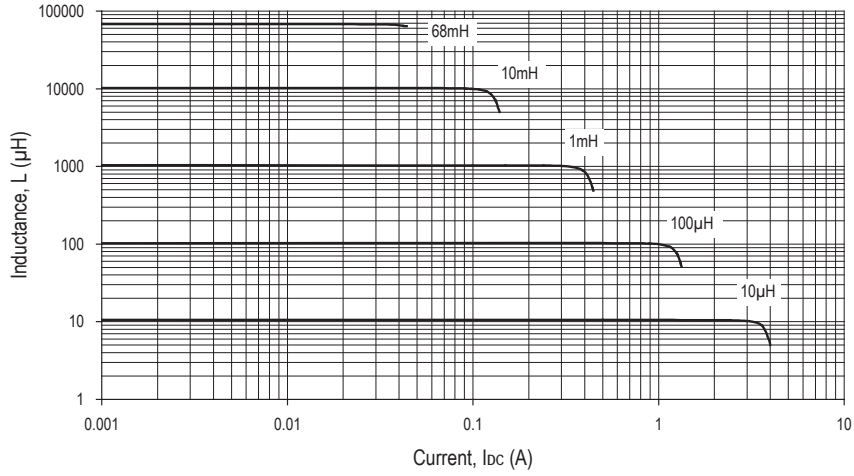
All specifications typical at T_A = 25°C

- 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
- 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.

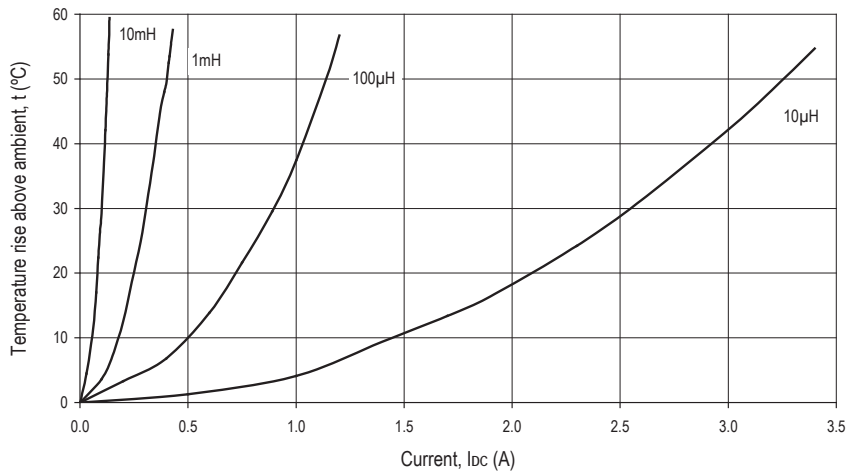


For full details go to
www.murata-ps.com/rohs

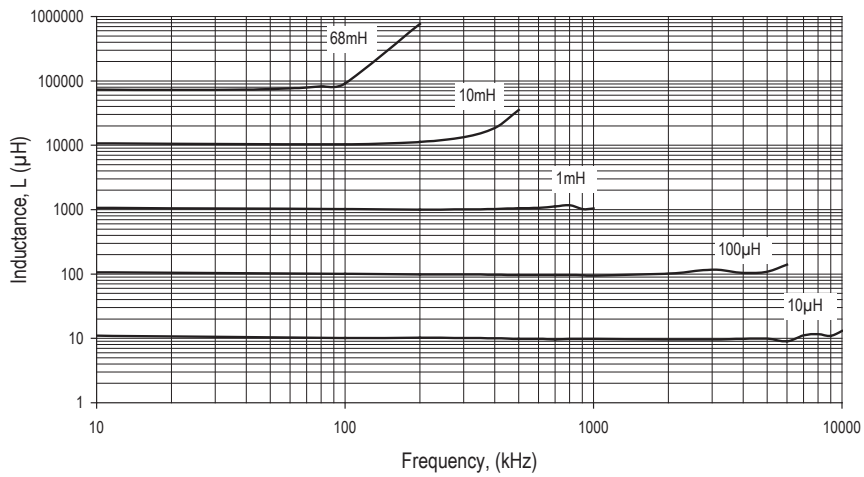
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

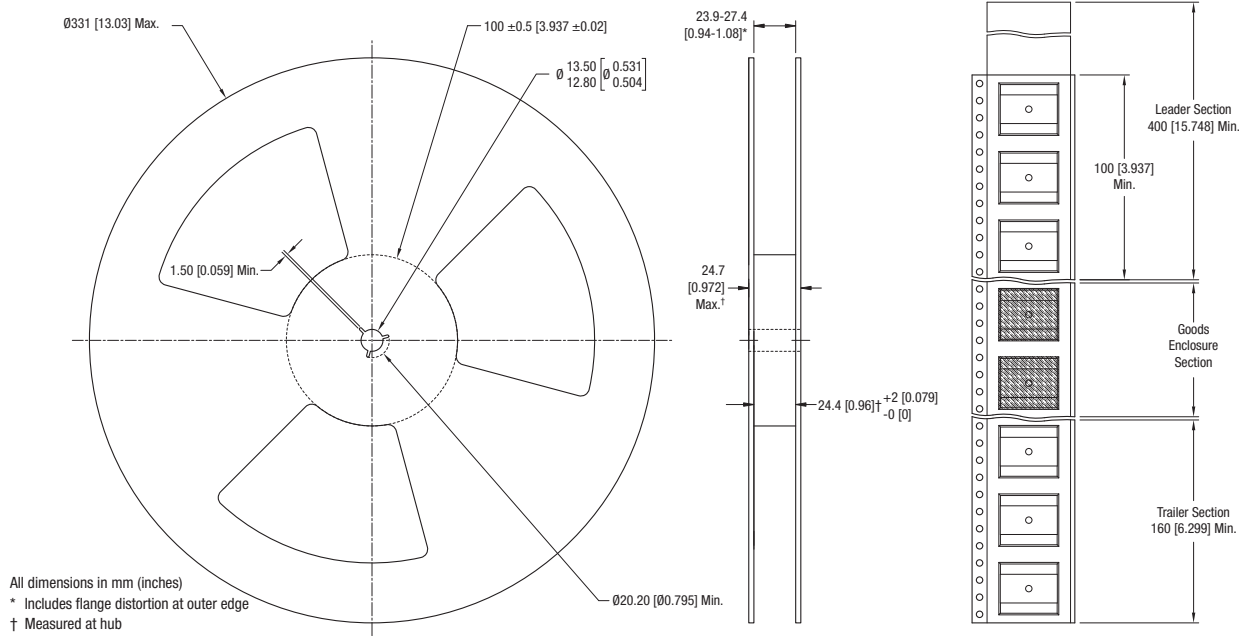


INDUCTANCE Vs FREQUENCY

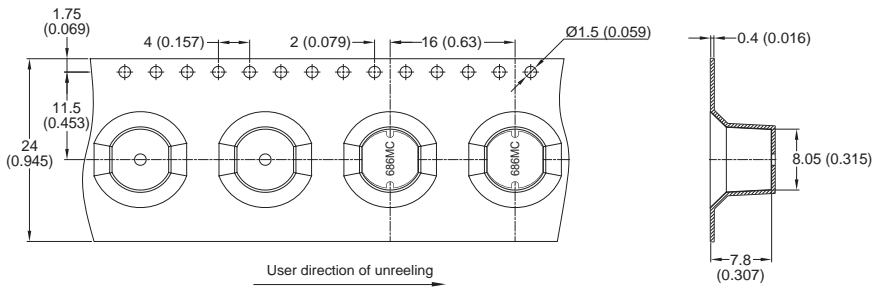


TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



TAPE OUTLINE DIMENSIONS



Reel quantity: 500
 All dimensions in mm (inches)

DISCLAIMER

Unless otherwise stated in the datasheet, all products are designed for standard commercial and industrial applications and NOT for safety-critical and/or life-critical applications.

Particularly for safety-critical and/or life-critical applications, i.e. applications that may directly endanger or cause the loss of life, inflict bodily harm and/or loss or severe damage to equipment/property, and severely harm the environment, a prior explicit written approval from Murata is strictly required. Any use of Murata standard products for any safety-critical, life-critical or any related applications without any prior explicit written approval from Murata shall be deemed unauthorised use.

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- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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Refer to: <https://www.murata.com/en-eu/products/power/requirements>

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