

FEATURES

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- Low DCR per cubic mm
- Designed for switching frequencies between 100KHz-5MHz



ELECTRICAL SPECIFICATIONS @ 25°C

Part Number*	Inductance (uH)	Tolerance (%)	Irms (A)	Isat (A)	DC Resistance (mΩ)		Type
					Typ	Max	
AMDLA3020Q-R22MT	0.22	20	9	12	8.0	10	Lead Frame
AMDLA3020Q-R33MT	0.33	20	8.0	8.5	12	15	Lead Frame
AMDLA3020Q-R47MT	0.47	20	7.0	8.0	15	18	Lead Frame
AMDLA3020Q-R68MT	0.68	20	6.0	6.0	22	26	Lead Frame
AMDLA3020Q-1R0MT	1	20	5.0	5.5	32	36	Lead Frame
AMDLA3020Q-1R5MT	1.5	20	4.2	4.5	34	39	Lead Frame
AMDLA3020Q-2R2MT	2.2	20	2.9	4.0	60	69	Lead Frame
AMDLA3020Q-3R3MT	3.3	20	2.6	3.7	77	94	Lead Frame
AMDLA3020Q-4R7MT	4.7	20	2.3	3.0	120	144	Lead Frame
AMDLA3020Q-6R8MT	6.8	20	1.6	2.1	185	220	Lead Frame
AMDLA3020Q-100MT	10	20	1.2	1.4	224	260	Lead Frame

* Please refer to Part Identification section

Test Conditions

Inductance: 1 MHz, 1 V, 0 Adc

Humidity Range: 65% RH

Temperature Rise Current: Current measured at Δ T of 40°C

Saturation Current: Current measured at Δ L of 30%

GENERAL SPECIFICATIONS

Operating Temperature:

-55°C to +125°C with (40°C rise) Irms current.

Maximum Part Temperature: +125°C

Components Storage Temperature:

-55°C to +125°C

Tape and Reel Packaging

Temperature: -20°C to +65°C MSL: Level 1

MATERIALS

Core: Metal Alloy

Wire: Copper

Terminal: Tin Plating

Ink: Black

PART BUILDER

AMDLA3020Q

 -

1R0

M

T

Series

Inductance*

Tol. ¹

Packaging ²

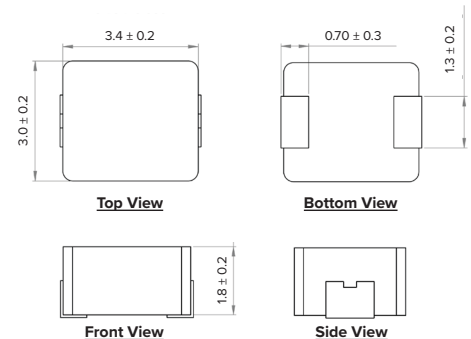
1. Tolerance: M = 20%

2. Packaging: B = Bulk

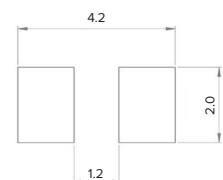
T = Tape and Reel (3,000pcs/reel)

*Refer to Electrical Specification table

PRODUCT DIMENSIONS

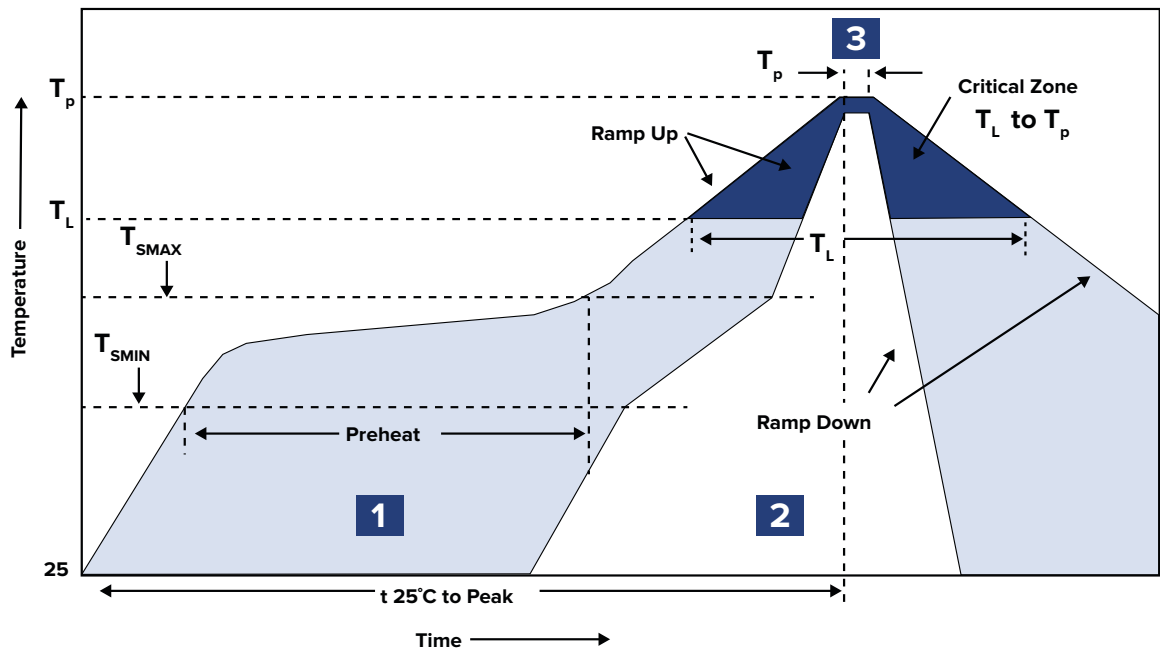


RECOMMENDED LANDING PATTERN



Dimensions: mm

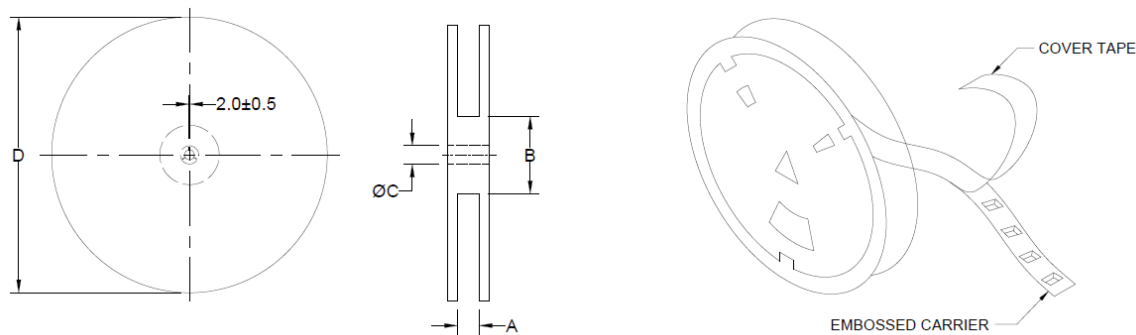
RECOMMENDED REFLOW PROFILE



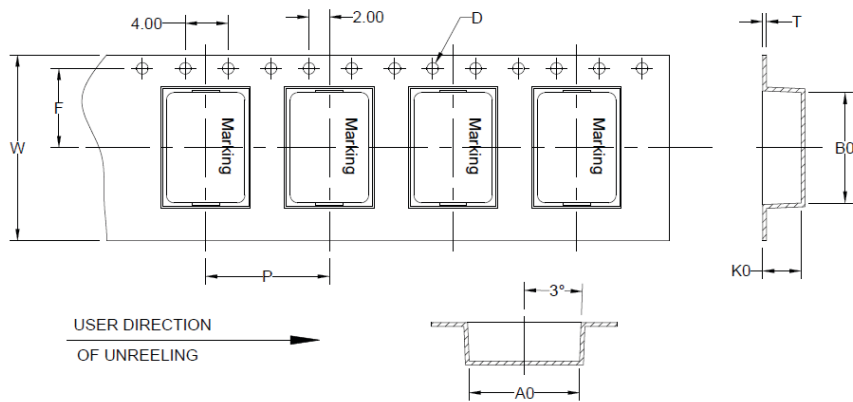
ZONE	DESCRIPTION	TEMPERATURE	TIMES
1	Preheat	$T_{smin} \sim T_{smax}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T_L 230°C	30 ~ 40 sec.
3	Peak Heat	T_P 250°C+0/-5°C	10 sec. MAX

PACKAGING

Tape and Reel: 3,000



TYPE	A	B	C	D
13" x 12 mm	12.4 +2/-0	100.0 ± 0.5	13.0 +0.5/-0.2	330.0



B ₀	A ₀	K ₀	P	W	F	T	D
3.8 ± 0.1	3.4 ± 0.1	2.3 ± 0.1	8.0 ± 0.1	12.0 ± 0.3	5.5 ± 0.1	0.3 ± 0.05	1.5

Dimensions: mm

Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

[AMDLA3020Q-100MT](#) [AMDLA3020Q-1R0MT](#) [AMDLA3020Q-1R5MT](#) [AMDLA3020Q-2R2MT](#) [AMDLA3020Q-R68MT](#)
[AMDLA3020Q-3R3MT](#) [AMDLA3020Q-4R7MT](#) [AMDLA3020Q-6R8MT](#) [AMDLA3020Q-R22MT](#) [AMDLA3020Q-R33MT](#)
[AMDLA3020Q-R47MT](#)