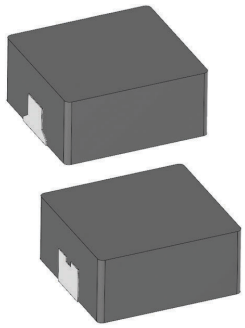
AMDLA1306Q MOLDED INDUCTOR

ABRACON

Request Samples | Check Inventory



FEATURES

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- Low DCR per cubic mm
- Designed for switching frequencies between 100KHz-2MHz

AEC-Q200 QUALIFIED

ISO 9001:2015 CERTIFIED

ROHS COMPLIANT

ELECTRICAL SPECIFICATIONS @ 25°C

PART NUMBER*	INDUCTANCE (uH)	TOLERANCE (%)	IRMS (A)	ISAT (A)	DC RESISTANCE (mΩ)		TYPE
					TYP	MAX	
AMDLA1306Q-R10NT	0.10	30	60	115	0.2	0.25	Non-Lead Frame
AMDLA1306Q-R22MT	0.22	20	42	105	0.4	0.46	Non-Lead Frame
AMDLA1306Q-R47MT	0.47	20	35	58	0.88	1.02	Non-Lead Frame
AMDLA1306Q-R56MT	0.56	20	33.5	50	1.10	1.3	Non-Lead Frame
AMDLA1306Q-R68MT	0.68	20	33	46	1.25	1.5	Non-Lead Frame
AMDLA1306Q-R82MT	0.82	20	31	39	1.30	1.65	Non-Lead Frame
AMDLA1306Q-1R0MT	1.0	20	29	36	1.50	1.8	Non-Lead Frame
AMDLA1306Q-1R2MT	1.2	20	27	33	1.80	2.2	Non-Lead Frame
AMDLA1306Q-1R5MT	1.5	20	25	30	2.20	2.53	Non-Lead Frame
AMDLA1306Q-1R8MT	1.8	20	23	27	3.20	3.6	Non-Lead Frame
AMDLA1306Q-2R2MT	2.2	20	21	24	3.70	4.2	Lead Frame
AMDLA1306Q-3R3MT	3.3	20	19	22.5	5.30	6.2	Lead Frame
AMDLA1306Q-4R7MT	4.7	20	17	21	6.80	8	Lead Frame
AMDLA1306Q-5R6MT	5.6	20	15	19.5	8.30	9.8	Lead Frame
AMDLA1306Q-6R8MT	6.8	20	14	18	9.80	11.3	Lead Frame
AMDLA1306Q-8R2MT	8.2	20	12.5	17	12	13.8	Lead Frame
AMDLA1306Q-100MT	10	20	11	15	13	15.8	Lead Frame
AMDLA1306Q-220MT	22.0	20	8	9	31	35	Lead Frame
AMDLA1306Q-330MT	33.0	20	6.5	8	46	55	Lead Frame
AMDLA1306Q-470MT	47.0	20	5.7	6.8	58	67	Lead Frame
AMDLA1306Q-680MT	68.0	20	4.8	5	82	100	Lead Frame
AMDLA1306Q-820MT	82.0	20	4	4.2	110	132	Lead Frame
AMDLA1306Q-101MT	100.0	20	3.8	4	140	161	Lead Frame

* Please refer to Part Identification section

Test Conditions
Inductance: 100 kHz, 1 V, 0 Adc
Humidity Range: 85 ± 2% RH
Temperature Rise Current: Current measured at Δ T of 40°C
Saturation Current: Current measured at Δ L of 30%

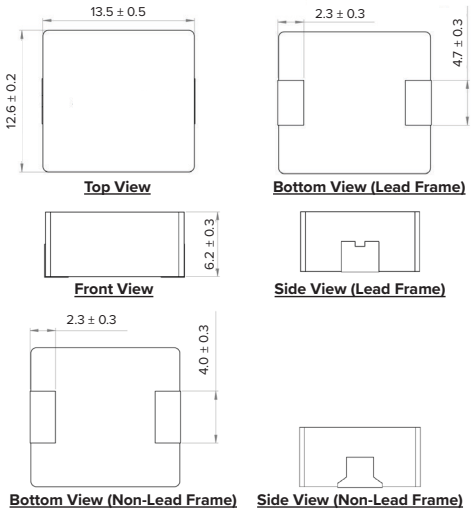
GENERAL SPECIFICATIONS

Operating Temperature:
-55°C to +155°C with (40°C rise) Irms current.
Maximum Part Temperature: +155°C
Components Storage Temperature:
-55°C to +125°C
Tape and Reel Packaging Temperature:
-55°C to +80°C
MSL: Level 1

MATERIALS

Core: Metal Alloy
Wire: Copper
Terminal: Tin Plating
Ink: Black

PRODUCT DIMENSIONS



PART BUILDER

AMDLA1306Q – 1R0 M T

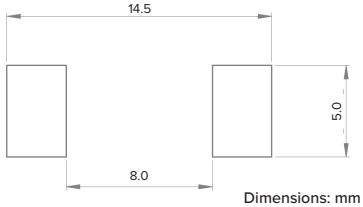
Series | Inductance* | Tol. [1] | Packaging [2]

1. Tolerance: M = 20%
N = 30%

2. Packaging: B = Bulk
T = Tape and Reel (500pcs/reel)

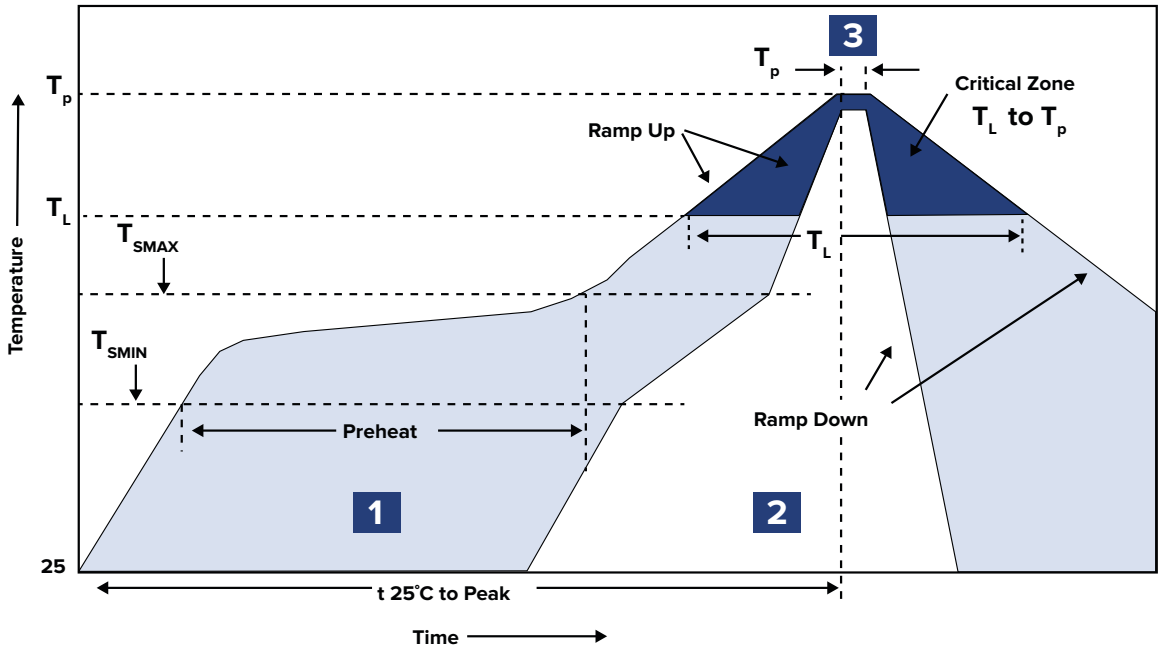
*Refer to Electrical Specification table

RECOMMENDED LANDING PATTERN



Dimensions: mm

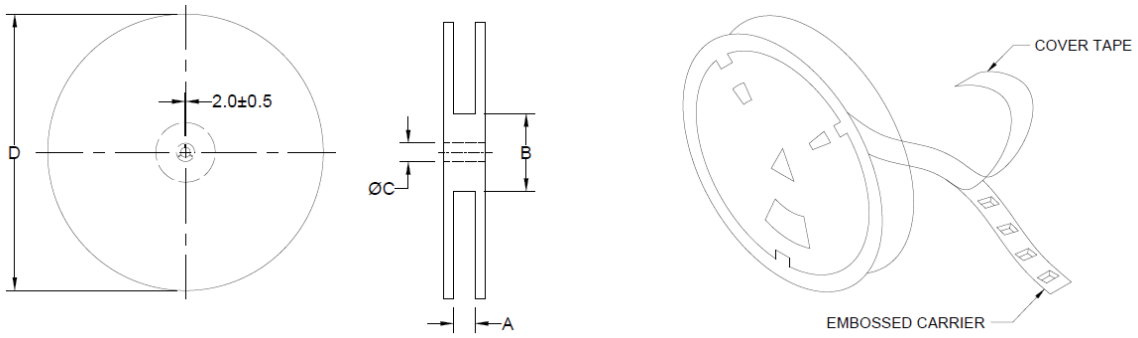
RECOMMENDED REFLOW PROFILE



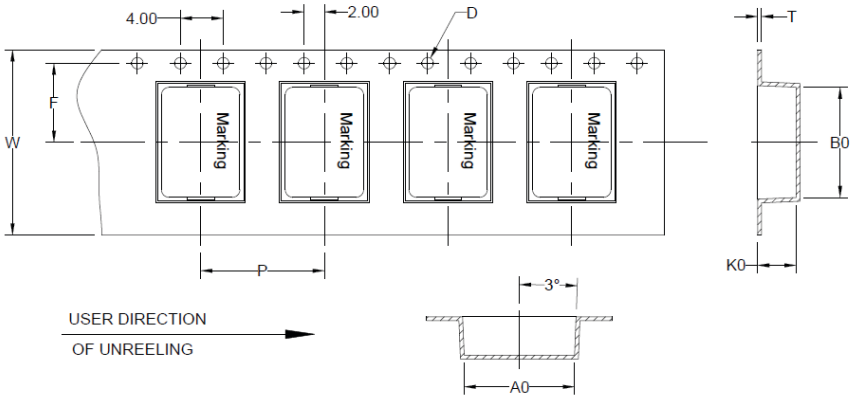
ZONE	DESCRIPTION	TEMPERATURE	TIMES
1	Preheat	T_{smin} ~ T_{smax} 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak Heat	T_P 260°C	10 sec. MAX

PACKAGING

Tape and Reel: 500
Units per Carton: 4,000
T&R per Carton: 8
Weight per Carton: 27.1 kg
Weight per Unit: 5.5 g
Carton Dimensions: 410 x 325 x 415 mm



TYPE	A	B	C	D
13” x 24 mm	24.4 +2/-0	100.0 ± 2.0	13.5 +0.5/-0.2	330.0



B_0	A_0	K_0	P	W	F	T	D
14.1 ± 0.1	12.9 ± 0.1	7.0 ± 0.1	16.0 ± 0.1	24.0 ± 0.3	11.5 ± 0.1	0.35 ± 0.05	1.5 ± 0.1

Dimensions: mm

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