

Request Samples (2)



Check Inventory (S)





#### **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	TOLERANCE (%)	IRMS	ISAT		STANCE Ω)	TYPE	
	(uH)	(%)	(A)	(A)	TYP	MAX		
AMDLA4020Q-R12MT	0.12	20	12	17	4.2	5.0	Lead Frame	
AMDLA4020Q-R22MT	0.22	20	11	15	7.0	8.0	Lead Frame	
AMDLA4020Q-R33MT	0.33	20	9.0	13	7.79	9.5	Lead Frame	
AMDLA4020Q-R47MT	0.47	20	8.5	8.0	9.2	14.0	Lead Frame	
AMDLA4020Q-R68MT	0.68	20	7.0	7.5	11.2	13.5	Lead Frame	
AMDLA4020Q-1R0MT	1	20	5.5	7.0	17.0	21.0	Lead Frame	
AMDLA4020Q-1R5MT	1.5	20	4.0	5.4	22.0	26.0	Lead Frame	
AMDLA4020Q-2R2MT	2.2	20	4.2	4.2	31.5	38.0	Lead Frame	
AMDLA4020Q-3R3MT	3.3	20	3.0	3.5	47.5	55.0	Lead Frame	
AMDLA4020Q-4R7MT	4.7	20	2.2	3.2	56.7	70.0	Lead Frame	
AMDLA4020Q-6R8MT	6.8	20	2.4	2.6	114.0	138.0	Lead Frame	
AMDLA4020Q-100MT	10	20	1.8	2.1	170.0	190.0	Lead Frame	
AMDLA4020Q-150MT	15	20	1.2	1.6	220.0	275.0	Lead Frame	
AMDLA4020Q-220MT	22	20	0.9	1.4	277.0	460.0	Lead Frame	

<sup>\*</sup> Please refer to Part Builder section

#### **Test Conditions**

Inductance: 1 MHz, 1 V, 0 Adc Humidity Range: 65% RH

Temperature Rise Current: Current measured at  $\Delta$  T of 40°C Saturation Current: Current measured at  $\Delta$  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 Black Ink:

#### PART BUILDER

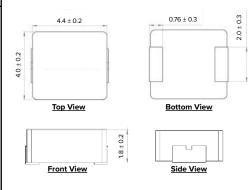


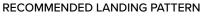
1. Tolerance: M = 20%

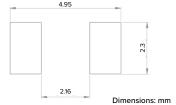
2. Packaging: B = Bulk

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

## PRODUCT DIMENSIONS





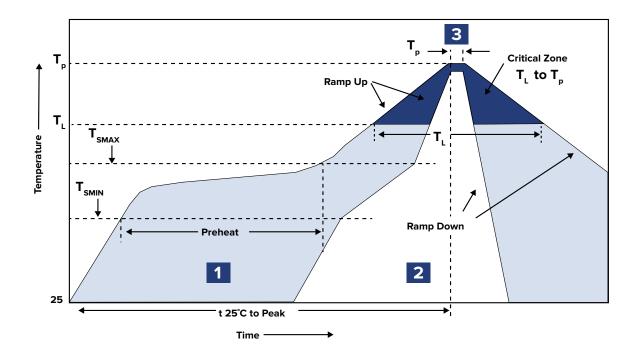




<sup>\*</sup>Refer to Electrical Specification table



### **RECOMMENDED REFLOW PROFILE**



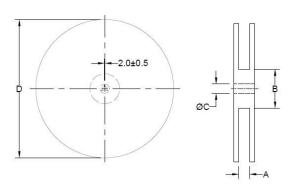
ZONE	DESCRIPTION	TEMPERATURE	TIMES
1	Preheat	T <sub>smin</sub> ~ T <sub>smax</sub> 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T <sub>∟</sub> 230°C	30 ~ 40 sec.
3	Peak Heat	T <sub>P</sub> 250°C+0/-5°C	10 sec. MAX

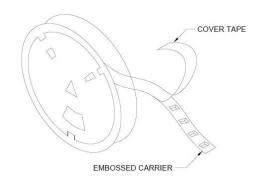




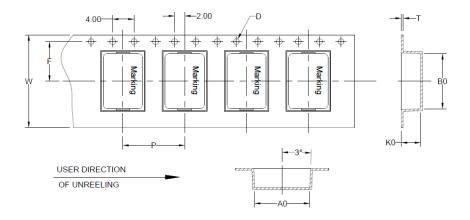
### **PACKAGING**

Tape and Reel: 3,000 pcs





TYPE	А	В	С	D
13" x 12 mm	12.4 +2/-0	100.0 ± 0.5	13.0 +0.5/-0.2	330.0



	B <sub>o</sub>	A <sub>o</sub>	K <sub>o</sub>	Р	W	F	Т	D
4	4.85 ± 0.1	4.45 ± 0.1	$2.3 \pm 0.1$	$8.0 \pm 0.1$	12.0 ± 0.3	5.5 ± 0.1	$0.3 \pm 0.05$	1.5

Dimensions: mm

This product is commercial off-the-shelf (COTS) and not specifically designed for automotive, military, aviation, aerospace, implantable, life-dependent medical or safety applications. This product is not recommended for use in any application requiring high reliability in which component failure could result in loss of life and/or property damage without prior written approval from Abracon. Specifications are subject to change without notice. Contact Abracon for more information.

