#### AMDLA4020S MOLDED INDUCTOR

ELECTRICAL SPECIFICATIONS @ 25°C

TOLERANCE

(%)

20

20

20

20

20

20

20

20

20

20

20

20

20

20

INDUCTANCE

(uH)

0.12

0.22

0.33

0.47

0.68

1.0

1.5

2.2

33

4.7

6.8

10.0

15.0

22.0

Temperature Rise Current: Current measured at  $\Delta$  T of 40°C Saturation Current: Current measured at  $\Delta$  L of 30%

Request Samples 🕥



PART NUMBER\*

AMDLA4020S-R12MT

AMDLA4020S-R22MT

AMDLA4020S-R33MT

AMDLA4020S-R47MT

AMDLA4020S-R68MT

AMDLA4020S-1R0MT

AMDLA4020S-1R5MT

AMDI A4020S-2R2MT

AMDLA4020S-3R3MT

AMDLA4020S-4R7MT

AMDLA4020S-6R8MT

AMDLA4020S-100MT AMDLA4020S-150MT

AMDLA4020S-220MT

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

**Test Conditions** 

\* Please refer to Part Identification section

#### **FEATURES**

- Shielded construction
- Soft saturation

IRMS

(A)

15

14

11

10

9.0

6.5

4.8

45

3.5

3.0

2.4

20

1.8

12

ISAT

(A)

30

24

14

14

12

9.0

75

60

5.0

45

3.5

35

26

21

- Low DCR per cubic mm
- Designed for switching frequencies between 100KHz-5MHz

DC RESISTANCE

 $(m\Omega)$ 

TYP

3.5

6.2

7.0

9.4

13.3

16.4

22

315

45

58

86

170

240

265

MAX

4.2

7.4

8.4

11.3

16

20

26

38

54

70

103

190

275

320

TYPE

Lead Frame

Automotive option available upon request

## Check Inventory 🕥

ABRACON.



# GENERAL

SPECIFICATIONS

**Operating Temperature:** -55°C to +125°C with (40°C rise) Irms current.

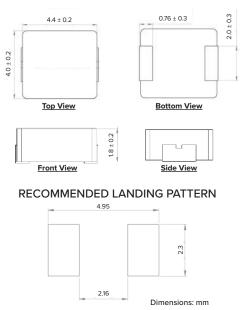
Maximum Part Temperature: +125°C Components Storage Temperature: -55°C to +125°C Tape and Reel Packaging

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

#### MATERIALS

Core:Metal AlloyWire:CopperTerminal:Tin PlatingInk:Black

#### **PRODUCT DIMENSIONS**



### PART BUILDER

AMDLA4020S Series



**1. Tolerance:** M = 20%

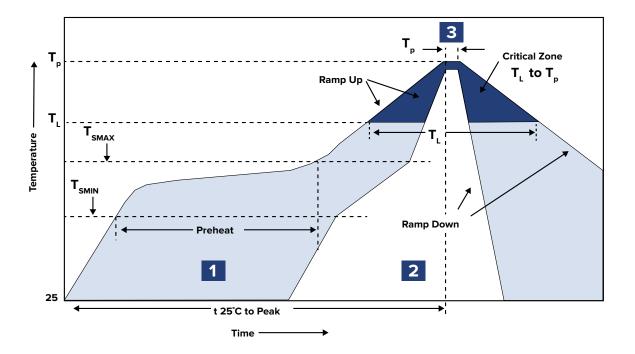
2. Packaging: B = Bulk T = Tape and Reel (3,000pcs/reel)

\*Refer to Electrical Specification table





#### **RECOMMENDED REFLOW PROFILE**



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

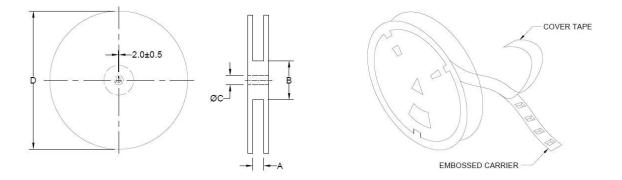


#### AMDLA4020S MOLDED INDUCTOR

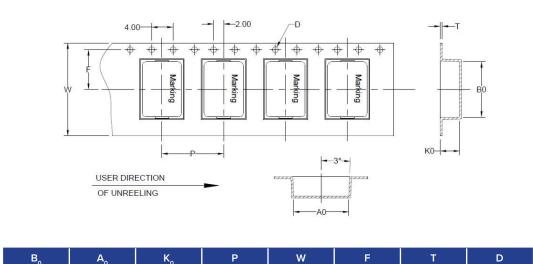


#### PACKAGING

Tape and Reel:	3,000
Units per Carton:	24,000
T&R per Carton:	8
Weight per Carton:	14.5 kg
Weight per Unit:	0.43 g
Carton Dimensions:	360 x 360 x 400 mm



ТҮРЕ	А	В	С	D
13" x 12 mm	12.4 +2/-0	$100.0 \pm 0.5$	13.0 +0.5/-0.2	330.0



Dimensions: mm

1.5

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.

 $4.85 \pm 0.1 \qquad 4.45 \pm 0.1 \qquad 2.3 \pm 0.1 \qquad 8.0 \pm 0.1 \qquad 12.0 \pm 0.3 \qquad 5.5 \pm 0.1 \qquad 0.3 \pm 0.05$ 



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