AMELA2010S MOLDED INDUCTOR



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FEATURES

- Shielded construction
- Soft saturation
- High efficiency
- Designed for switching frequencies between 100KHz-5MHz
- Automotive option available upon request





ELECTRICAL SPECIFICATIONS @ 25°C

PART NUMBER*	INDUCTANCE (uH)	TOLERANCE (%)	IRMS (A)	ISAT (A)	DC RESISTANCE (mΩ)		TYPE
					TYP	MAX	
AMELA2010S-R22MT	0.22	20	6.5	8.5	15	17	Lead Frame
AMELA2010S-R33MT	0.33	20	5.5	6.5	16.5	20	Lead Frame
AMELA2010S-R47MT	0.47	20	4.1	5.5	23	29	Lead Frame
AMELA2010S-R68MT	0.68	20	3.6	4.6	36	44	Lead Frame
AMELA2010S-1R0MT	1.0	20	3.4	4.0	44	53	Lead Frame
AMELA2010S-1R5MT	1.5	20	2.8	3.0	61	70	Lead Frame
AMELA2010S-2R2MT	2.2	20	2.0	2.6	90	105	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

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

PART BUILDER

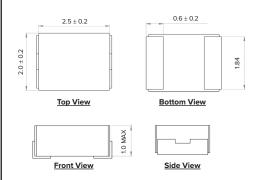


1. Tolerance: M = 20%

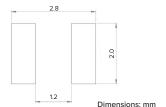
2. Packaging: B = Bulk

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

PRODUCT DIMENSIONS



RECOMMENDED LANDING PATTERN

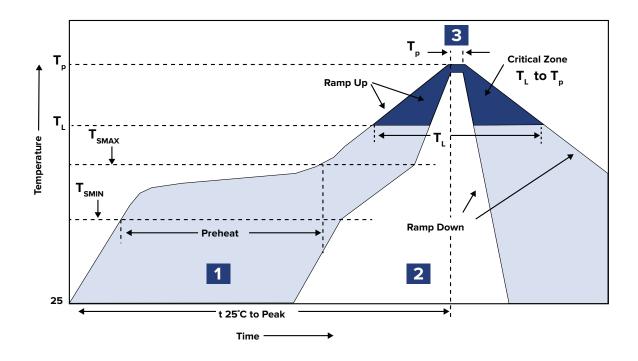




^{*}Refer to Electrical Specification table



RECOMMENDED REFLOW PROFILE



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



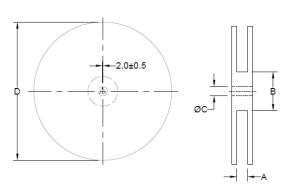


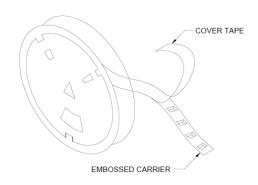
PACKAGING

Tape and Reel: 3,000 Units per Carton: 144,000

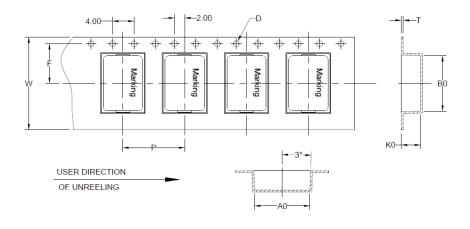
T&R per Carton: 48
Weight per Carton: 6.0 kg
Weight per Unit: 0.06 g

Carton Dimensions: 450 x 380 x 210 mm





TYPE	TYPE A		С	D	
7" x 8 mm	9.7 ± 0.5	50.0 ± 0.5	13.0 ± 0.1	183 ± 3.0	



B _o	A _o	K _o	Р	W	F	T	D
2.85 ± 0.1	2.4 ± 0.1	1.15 ± 0.05	4.0 ± 0.1	8.0 ± 0.1	3.5 ± 0.1	0.25 ± 0.03	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.



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ABRACON:

<u>AMELA2010S-1R0MT</u> <u>AMELA2010S-1R5MT</u> <u>AMELA2010S-2R2MT</u> <u>AMELA2010S-R22MT</u> <u>AMELA2010S-R33MT</u> AMELA2010S-R47MT AMELA2010S-R68MT