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FEATURES

- Shielded construction
- Soft saturation
- High current density
- Designed for switching frequencies between 100KHz-2MHz
- Automotive option available upon request





ELECTRICAL SPECIFICATIONS @ 25°C

AMPLA7030S-R19NT 0.16 30 27 45 1.5 1.9 Lead Fr AMPLA7030S-R19NT 0.18 30 25 43 1.7 2.3 Lead Fr AMPLA7030S-R19NT 0.19 30 24 41 1.8 2.5 Lead Fr AMPLA7030S-R29NT 0.20 30 24 41 1.8 2.5 Lead Fr AMPLA7030S-R29NT 0.22 30 23 40 2.1 2.8 Lead Fr AMPLA7030S-R25MT 0.25 20 21 39 3.3 3.5 Lead Fr AMPLA7030S-R3MT 0.33 20 20 32 3.6 4.2 Lead Fr AMPLA7030S-R3MT 0.36 20 19 32 3.6 4.2 Lead Fr AMPLA7030S-R3MT 0.36 20 19 32 3.6 4.2 Lead Fr AMPLA7030S-R3MT 0.36	rame rame rame rame rame rame rame rame
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AMPLA7030S-R56MT 0.56 20 16.5 25.5 4.7 5.0 Lead Fr	rame
AMPLA7030S-R60MT 0.60 20 16 25.5 4.7 5.2 Lead Fr	rame
AMPLA7030S-R68MT 0.68 20 15.5 25 4.8 5.5 Lead Fr	rame
AMPLA7030S-R75MT 0.75 20 14.5 24.5 5.5 6.6 Lead Fr	rame
AMPLA7030S-R82MT 0.82 20 13 24 6.7 8 Lead Fr	rame
AMPLA7030S-R90MT 0.90 20 11 22 8.3 10 Lead Fr	rame
AMPLA7030S-1R0MT 1.0 20 11 22 8.3 10 Lead Fr	rame
AMPLA7030S-1R2MT 1.2 20 10 20 10 12 Lead Fr	rame
AMPLA7030S-1R5MT 1.5 20 9.0 18 13 15 Lead Fr	rame
AMPLA7030S-1R8MT 1.8 20 8.5 16 14 17 Lead Fr	rame
AMPLA7030S-2R0MT 2.0 20 8.2 15 16 19 Lead Fr	rame
AMPLA7030S-2R2MT 2.2 20 8.0 14 18 20 Lead Fr	rame
AMPLA7030S-2R5MT 2.5 20 7.0 13 20 22 Lead Fr	rame
AMPLA7030S-2R7MT 2.7 20 7.0 13 24 27 Lead Fr	rame
AMPLA7030S-3R3MT 3.3 20 6.0 13.5 28 30 Lead Fr	rame
AMPLA7030S-4R7MT 4.7 20 5.5 10 37 40 Lead Fr	rame
AMPLA7030S-5R6MT 5.6 20 5.0 9.0 43 48 Lead Fr	rame
AMPLA7030S-6R8MT 6.8 20 4.5 8.0 54 60 Lead Fr	rame
AMPLA7030S-8R2MT 8.2 20 4.0 7.5 64 68 Lead Fr	rame
AMPLA7030S-100MT 10 20 3.5 6.0 75 85 Lead Fr	rame
AMPLA7030S-120MT 12 20 3.3 5.5 81 93 Lead Fr	rame
AMPLA7030S-150MT 15 20 3.0 4.0 107 123 Lead Fr	rame
AMPLA7030S-180MT 18 20 2.5 4.0 140 160 Lead Fr	rame
AMPLA7030S-220MT 22 20 2.0 3.5 165 190 Lead Fr	rame
AMPLA7030S-330MT 33 20 2.0 2.5 200 240 Lead Fr	rame
AMPLA7030S-470MT 47 20 1.75 2.0 302 363 Lead Fr	ramo

^{*} 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 +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: -55°C to +80°C

MSL: Level 1

Not recommended for D.I. water

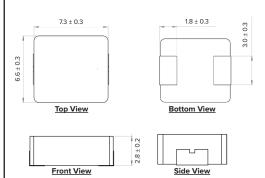
wash

MATERIALS

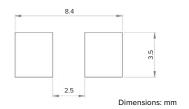
Core: Carbonyl Powder

Wire: Copper Terminal: Tin Plating Black Ink: Paint: Gray

PRODUCT DIMENSIONS



RECOMMENDED LANDING PATTERN





PART BUILDER



1. Tolerance: M = 20%

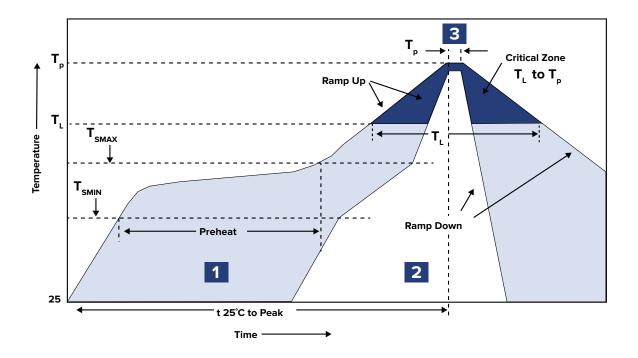
N = 30%

2. Packaging: B = Bulk

T = Tape and Reel (1,000pcs/reel)

*Refer to Electrical Specification table

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 _₽ 260°C	10 sec. MAX	



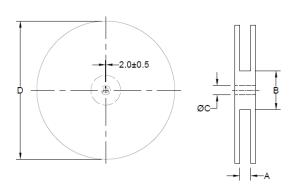


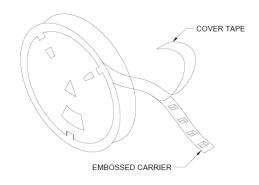
PACKAGING

Tape and Reel: 1,000 Units per Carton: 8,000 T&R per Carton: 8 Weight per Carton: 11.1 kg

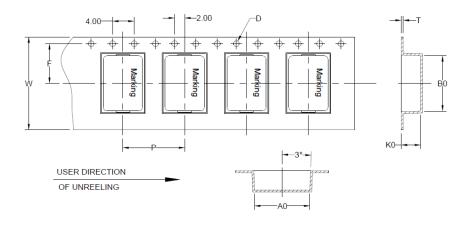
Weight per Unit: 0.75 g

Carton Dimensions: 410 x 325 x 415 mm





TYPE	А	В	С	D	
13" x 16 mm	16.4 +2/-0	100 ± 2.0	13.0 +0.5/-0.2	330	



B _o	A_{o}	K _o	Р	W	F	T	D
7.7 ± 0.1	7.0 ± 0.1	3.3 ± 0.1	12.0 ± 0.1	16.0 ± 0.3	7.5 ± 0.1	0.35 ± 0.05	1.5 ± 0.1

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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