AMPLA5030S MOLDED INDUCTOR

Request Samples 🕥

FEATURES

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

ELECTRICAL SPECIFICATIONS @ 25°C

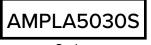
PART NUMBER*		DUCTANCE TOLERANCE IRMS ISA (uH) (%) (A) (A	-	ISAT	DC RESISTANCE (mΩ)		TYPE
	(un)		(A)	TYP	MAX		
AMPLA5030S-R15NT	0.15	30	18.0	30.0	2.3	2.7	Lead Frame
AMPLA5030S-R20NT	0.20	30	16.0	25.0	2.6	3.2	Lead Frame
AMPLA5030S-R25MT	0.25	20	15.0	20.0	3.7	4.1	Lead Frame
AMPLA5030S-R33MT	0.33	20	14.0	18.0	4.3	5.0	Lead Frame
AMPLA5030S-R47MT	0.47	20	12.0	16.0	6.4	7.4	Lead Frame
AMPLA5030S-R56MT	0.56	20	10.0	15.0	8.0	10	Lead Frame
AMPLA5030S-R68MT	0.68	20	8.5	14.0	10.0	12	Lead Frame
AMPLA5030S-R82MT	0.82	20	8.0	12.5	11.5	13	Lead Frame
AMPLA5030S-1R0MT	1.0	20	7.0	11.0	13	14	Lead Frame
AMPLA5030S-1R2MT	1.2	20	6.5	11.0	14	16	Lead Frame
AMPLA5030S-1R5MT	1.5	20	6.0	10.0	16	25	Lead Frame
AMPLA5030S-2R2MT	2.2	20	5.5	9.0	25	35	Lead Frame
AMPLA5030S-3R3MT	3.3	20	5.0	8.0	32	38	Lead Frame
AMPLA5030S-4R7MT	4.7	20	4.6	6.0	50	53	Lead Frame
AMPLA5030S-5R6MT	5.6	20	4.25	4.5	55	63	Lead Frame
AMPLA5030S-6R8MT	6.8	20	4.0	4.3	68	76.2	Lead Frame
AMPLA5030S-100MT	10.0	20	2.75	3.5	110	128	Lead Frame
AMPLA5030S-150MT	15.0	20	2.1	2.6	165	190	Lead Frame
AMPLA5030S-220MT	22.0	20	1.9	1.7	220	250	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 ∆ T of 40°C Saturation Current: Current measured at Δ L of 30%

PART BUILDER



Series

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

1R0 Т Inductance* Tol.¹



*Refer to Electrical Specification table



T = Tape and Reel (2,000pcs/reel)

GENERAL SPECIFICATIONS Operating Temperature:

-55°C to +125°C with (40°C rise) Irms current.

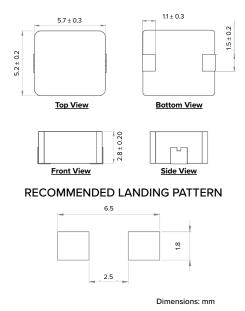
Maximum Part Temperature: +125°C **Components Storage Temperature:** -55°C to +125°C Tape and Reel Packaging

Temperature: -55°C to +80°C MSL: Level 1

MATERIALS

Carbonyl Powder
Copper
Tin Plating
Black
Gray

PRODUCT DIMENSIONS



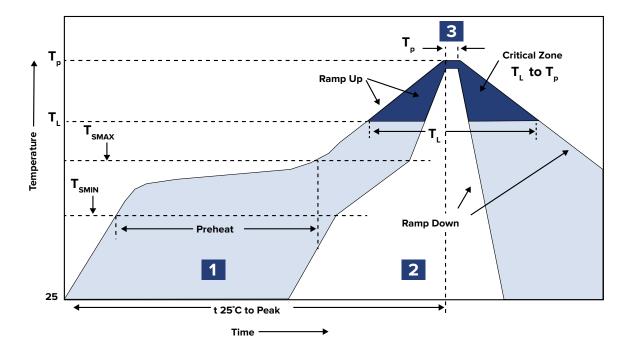




Check Inventory 🕥



RECOMMENDED REFLOW PROFILE



ZONE	DESCRIPTION	TEMPERATURE	TIMES
1	Preheat	T _{smin} ∼ T _{smax} 150°C ∼ 200°C	60 ~ 180 sec.
2	Reflow	Т _L 217°С	60 ~ 150 sec.
3	Peak Heat	Т _Р 260°С	10 sec. MAX

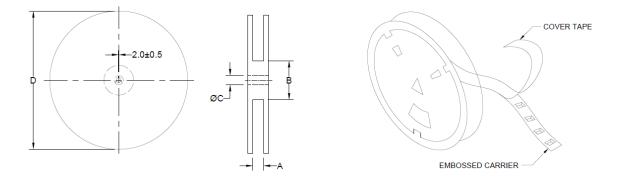


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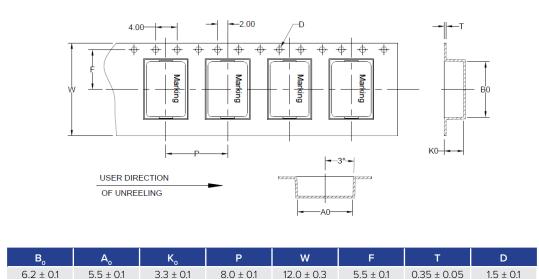


PACKAGING

Tape and Reel:	2,000
Units per Carton:	16,000
T&R per Carton:	8
Weight per Carton:	12.5 kg
Weight per Unit:	0.46 g
Carton Dimensions:	410 x 325 x 415 mm



ТҮРЕ	А	В	С	D
13" x 12 mm	12.4 +2/-0	100.0 ± 2.0	13.0 +0.5/-0.2	330.0



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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Mouser Electronics

Authorized Distributor

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ABRACON:

AMPLA5030S-4R7MTAMPLA5030S-5R6MTAMPLA5030S-6R8MTAMPLA5030S-220MTAMPLA5030S-R20NTAMPLA5030S-150MTAMPLA5030S-R56MTAMPLA5030S-R47MTAMPLA5030S-R82MTAMPLA5030S-3R3MTAMPLA5030S-R15NTAMPLA5030S-1R2MTAMPLA5030S-100MTAMPLA5030S-R33MTAMPLA5030S-1R0MTAMPLA5030S-R68MTAMPLA5030S-1R5MTAMPLA5030S-2R2MTAMPLA5030S-R25MT