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FEATURES

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- High operating temperature up to 155°C
- Designed for switching frequencies between 100KHz-2MHz



ELECTRICAL SPECIFICATIONS @ 25°C

PART NUMBER*	INDUCTANCE (uH)	TOLERANCE (%)	IRMS (A)	ISAT (A)	DC RESISTANCE (mΩ)	
					TYP	MAX
AMDLA7030Q-R15NT	0.15	30	25.0	36.0	1.7	2.1
AMDLA7030Q-R22MT	0.22	20	21.0	32.0	2.0	2.5
AMDLA7030Q-R33MT	0.33	20	20.0	22.0	2.8	3.4
AMDLA7030Q-R36MT	0.36	20	18.0	21.0	3.3	3.9
AMDLA7030Q-R47MT	0.47	20	16.0	18.0	3.4	4.0
AMDLA7030Q-R56MT	0.56	20	15.0	16.0	3.9	4.5
AMDLA7030Q-R68MT	0.68	20	14.5	15.0	4.7	5.3
AMDLA7030Q-R82MT	0.82	20	13.0	14.0	5.4	6.0
AMDLA7030Q-1R0MT	1	20	11.0	13.5	5.7	7.4
AMDLA7030Q-1R2MT	1.2	20	9.5	12.5	7.7	9.5
AMDLA7030Q-1R5MT	1.5	20	9.0	12.0	10.2	12.1
AMDLA7030Q-2R2MT	2.2	20	7.5	9.0	13.5	15.0
AMDLA7030Q-2R7MT	2.7	20	7.0	8.8	17.3	20.0
AMDLA7030Q-3R3MT	3.3	20	6.0	8.5	19.0	22.0
AMDLA7030Q-4R7MT	4.7	20	5.0	5.5	28.0	33.0
AMDLA7030Q-5R6MT	5.6	20	5.0	5.2	39.0	42.0
AMDLA7030Q-6R8MT	6.8	20	4.2	5.0	43.0	50.0
AMDLA7030Q-8R2MT	8.2	20	4.0	4.7	54.0	60.0
AMDLA7030Q-100MT	10	20	3.5	4.5	62.0	68.0
AMDLA7030Q-150MT	15	20	2.5	4.0	110	140
AMDLA7030Q-220MT	22	20	2.0	2.5	150	190
AMDLA7030Q-330MT	33	20	1.8	2.0	215	258

* Please refer to Part Identification section

Test Conditions

Inductance: 100 kHz, 1V, 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 +155°C with (40°C rise) Irms current.

Maximum Part Temperature: +155°C

Components Storage Temperature:

-55°C to +155°C

Tape and Reel Packaging

Temperature: -55°C to +80°C

MSL: Level 1

MATERIALS

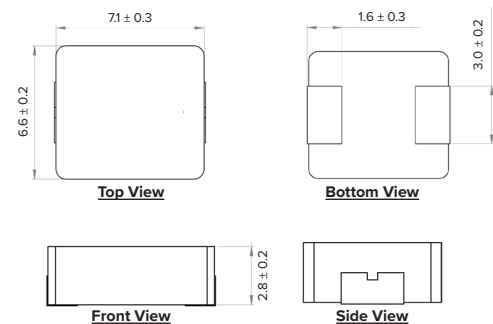
Core: Metal Alloy

Wire: Copper

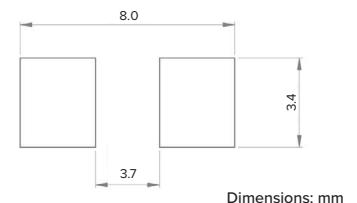
Terminal: Tin Plating

Ink: Black

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	$T_{smin} \sim T_{smax}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak Heat	T_p 260°C	10 sec. MAX

PACKAGING

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



TYPE	A	B	C	D
13" x 16 mm	16.4 +2/-0	100 ± 2.0	13.5 ± 0.5	330



B ₀	A ₀	K ₀	P	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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