

ASPI-0403S-681M-T Datasheet

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DiGi Electronics Part Number	ASPI-0403S-681M-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	ASPI-0403S-681M-T
Description	FIXED IND 680UH 180MA 2.2OHM SMD
Detailed Description	680 μ H Shielded Wirewound Inductor 180 mA 2.20 hm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

ASPI-0403S-681M-T

Series:

ASPI-0403S

Type:

Wirewound

Inductance:

680 μ H

Current Rating (Amps):

180 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.260" L x 0.175" W (6.60mm x 4.45mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

-

DC Resistance (DCR):

2.2Ohm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.115" (2.92mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

SMD SHIELDED INDUCTOR

ASPI-0403S

**RoHS
Compliant**

6.6 x 4.45 x 2.92 mm

FEATURES:

- Low DCR
- High reliability
- Magnetically shielded
- High energy storage capacity
- High heat resistance, ideal for reflow soldering

APPLICATIONS:

- PDAs and Pagers
- Mobile phone
- Notebook
- Battery Charger
- Flash memory programmer
- Entertainment electronic devices

STANDARD SPECIFICATIONS:

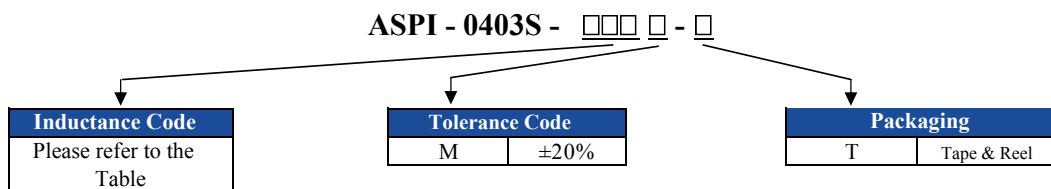
PARAMETERS

ABRACON P/N:	ASPI-0403S-xxx Series
Operating temperature:	-40°C to + 125°C (Including self-generated heat)
Storage temperature:	-40°C to + 125°C

Part Number	Inductance (uH)	Tolerance (%)	DCR (Ω)	IDC (A)
ASPI-0403S-1R0M	1.0	M	0.040	3.00
ASPI-0403S-1R5M	1.5	M	0.045	2.80
ASPI-0403S-1R8M	1.8	M	0.048	2.30
ASPI-0403S-2R2M	2.2	M	0.050	1.80
ASPI-0403S-3R3M	3.3	M	0.055	1.60
ASPI-0403S-4R7M	4.7	M	0.060	1.40
ASPI-0403S-5R6M	5.6	M	0.062	1.30
ASPI-0403S-6R8M	6.8	M	0.065	1.20
ASPI-0403S-100M	10	M	0.075	1.00
ASPI-0403S-150M	15	M	0.090	0.80
ASPI-0403S-220M	22	M	0.110	0.70
ASPI-0403S-330M	33	M	0.190	0.60
ASPI-0403S-470M	47	M	0.230	0.50
ASPI-0403S-680M	68	M	0.290	0.40
ASPI-0403S-101M	100	M	0.480	0.30
ASPI-0403S-151M	150	M	0.590	0.26
ASPI-0403S-221M	220	M	0.770	0.22
ASPI-0403S-331M	330	M	1.400	0.20
ASPI-0403S-471M	470	M	1.800	0.19
ASPI-0403S-681M	680	M	2.200	0.18
ASPI-0403S-102M	1000	M	3.400	0.15
ASPI-0403S-152M	1500	M	4.200	0.12
ASPI-0403S-222M	2200	M	8.500	0.10
ASPI-0403S-332M	3300	M	11.000	0.08
ASPI-0403S-472M	4700	M	13.900	0.06
ASPI-0403S-682M	6800	M	25.000	0.04

Test Frequency is 100KHz. DCR & IDC listed are all Max. value. Tolerance: M=±20%, M tolerance is standard

PART IDENTIFICATIONS:



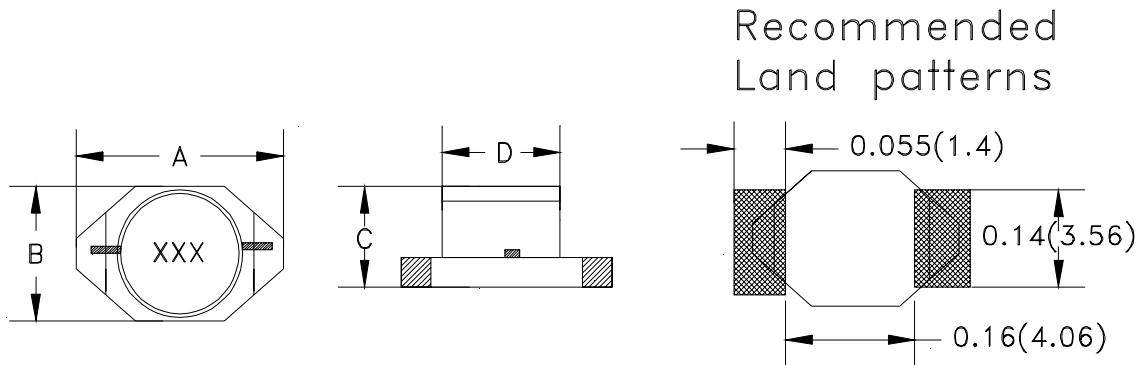
SMD SHIELDED INDUCTOR

ASPI-0403S


RoHS
Compliant


6.6 x 4.45 x 2.92 mm

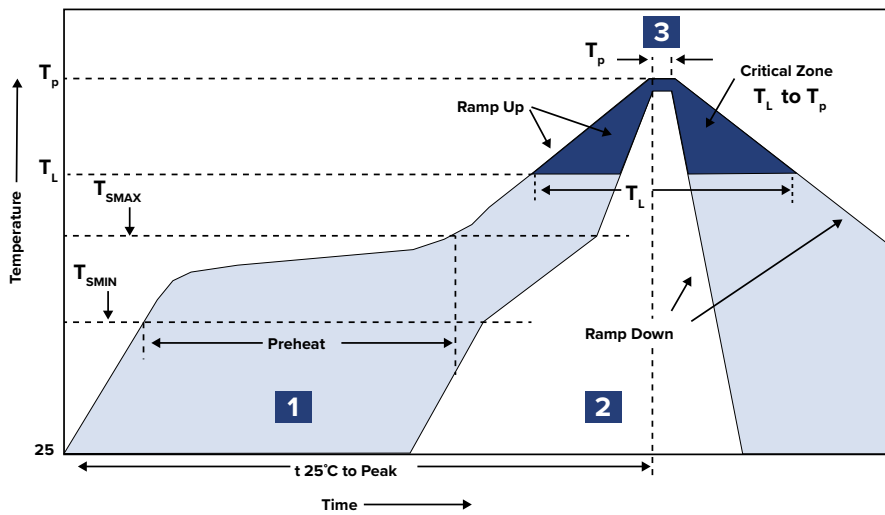
OUTLINE DIMENSION:



Part	A	B	C	D
ASPI-0403S-xxx	0.260 Max (6.60) Max	0.175 Max (4.45) Max	0.115 Max (2.92) Max	0.157±0.012 (4.0±0.3)

Dimensions: Inches (mm)

REFLOW PROFILE:



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{S\text{MAX}}$ 150°C	130 sec.
2	Reflow	T_L 235°C	10 sec.
3	Peak heat	T_P 250°C	10 sec. MAX

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