

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 2.20HM SMD

Detailed Description 680 µH Shielded Wirewound Inductor 180 mA 2.20

hm Max Nonstandard



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

| Manufacturer Product Number: | Manufacturer: |
|---------------------------------------|------------------------------|
| ASPI-0403S-681M-T | Abracon LLC |
| Series: | Product Status: |
| ASPI-0403S | Active |
| Туре: | Material - Core: |
| Wirewound | |
| Inductance: | Tolerance: |
| 680 µН | ±20% |
| Current Rating (Amps): | Current - Saturation (Isat): |
| 180 mA | |
| Shielding: | DC Resistance (DCR): |
| Shielded | 2.20hm Max |
| Q @ Freq: | Frequency - Self Resonant: |
| | |
| Ratings: | Operating Temperature: |
| | -40°C ~ 85°C |
| Inductance Frequency - Test: | Mounting Type: |
| 100 kHz | Surface Mount |
| Package / Case: | Supplier Device Package: |
| Nonstandard | |
| Size / Dimension: | Height - Seated (Max): |
| 0.260" L x 0.175" W (6.60mm x 4.45mm) | 0.115" (2.92mm) |

Environmental & Export classification

8504.50.8000

| RoHS Status: | Moisture Sensitivity Level (MSL): |
|------------------|-----------------------------------|
| ROHS3 Compliant | 1 (Unlimited) |
| REACH Status: | ECCN: |
| REACH Unaffected | EAR99 |
| HTSUS: | |

SMD SHIELDED INDUCTOR

ASPI-0403S





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

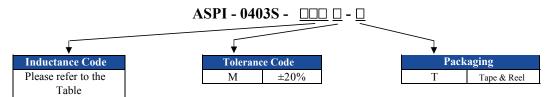
STANDARD SPECIFICATIONS:

| 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 | М | 0.075 | 1.00 |
| ASPI-0403S-150M | 15 | М | 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 | М | 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:





5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISED: 11-27-19

ABRACON IS ISO9001-2015 CERTIFIED

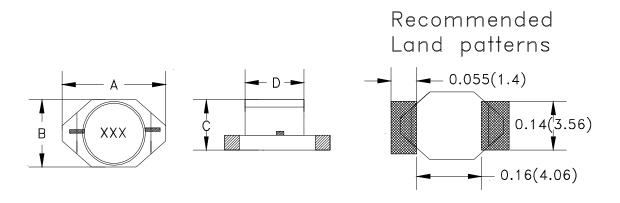
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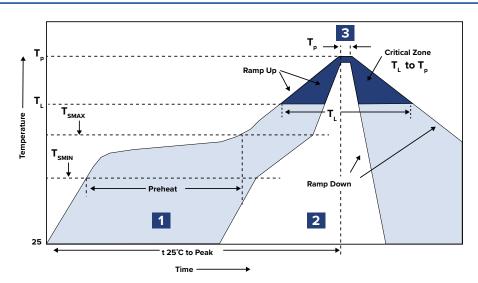
OUTLINE DIMENSION:



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

Dimensions: Inches (mm)

REFLOW PROFILE:



| Zone | Description | Temperature | Time |
|------|----------------|----------------------------|-------------|
| 1 | Preheat / Soak | T _{SMAX} 150°C | 130 sec. |
| 2 | Reflow | Т _ь 235°С | 10 sec. |
| 3 | Peak heat | Т _Р 250°С | 10 sec. MAX |



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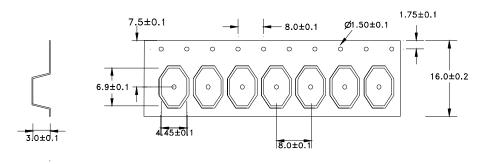
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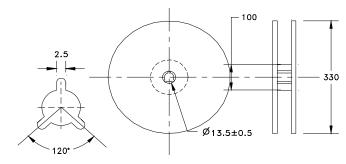




TAPE & REEL:

T= tape and reel (2,500 pcs per reel)





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