ULTRA MINIATURE SHIELDED POWER INDUCTOR

ASPI-0320S





> FEATURES:

- Small size and low profile: 2.0mm
- · Small DCR and high rated current
- High reliability to mechanical stress
- Magnetically shielded by magnetic powder molding
- Suitable for RoHS reflow profile

► APPLICATIONS:

- Mobile phones
- MP3 & 4 and other portable communication equipment
- Digital cameras.

ELECTRICAL SPECIFICATIONS:

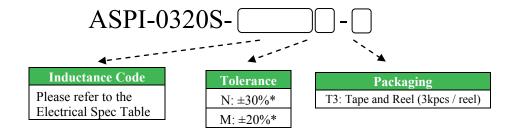
| Abracon P/N: | ASPI-0320S |
|------------------------------------|---|
| Operating Temperature & Humidity : | -25°C to +100°C (Including self generated heat) |
| Storage Temperature & Humidity: | -10°C to +40°C, 30% to 70% RH |

| Part Number | Inductance | Tolerance | DCR Max | DCR Typ | Saturation Current | Temperature Rise Current |
|----------------|------------|-----------|---------|---------|-----------------------|-----------------------------|
| Units | μΗ | % | mΩ | mΩ | A | A |
| Symbol | L | M, N | | | Isat* | Irms* |
| ASPI-0320S-1R5 | 1.5 | N | 95 | 76 | 1.40 | 1.45 |
| ASPI-0320S-2R2 | 2.2 | N | 106 | 84 | 1.30 | 1.33 |
| ASPI-0320S-3R3 | 3.3 | N | 125 | 100 | 1.10 | 1.24 |
| ASPI-0320S-4R7 | 4.7 | N | 157 | 126 | 0.95 | 1.10 |
| ASPI-0320S-5R6 | 5.6 | N | 180 | 144 | 0.88 | 1.00 |
| ASPI-0320S-6R8 | 6.8 | N | 193 | 154 | 0.85 | 0.94 |
| ASPI-0320S-100 | 10 | M | 241 | 193 | 0.70 | 0.77 |
| ASPI-0320S-120 | 12 | M | 322 | 258 | 0.63 | 0.68 |
| ASPI-0320S-150 | 15 | M | 344 | 275 | 0.56 | 0.66 |
| ASPI-0320S-220 | 22 | M | 495 | 396 | 0.48 | 0.57 |
| ASPI-0320S-330 | 33 | M | 740 | 592 | 0.38 | 0.45 |
| ASPI-0320S-470 | 47 | M | 1157 | 926 | 0.32 | 0.36 |

Test Conditions

- 1. Inductance is measured in HP-4285A Precision LCR Meter.
- 2. RDC is measured in HP-4338B milli ohm meter.(or equivalent).
- 3. Isat : Based on inductance change ($\Delta L/Lo : \leq -35\%$)
- 4. Irms : Based on temperature rise ($\Delta T : 40^{\circ}C \text{ TYP.}$)
- 5. Test Freq: 100KHz, 1Vrms

> OPTIONS AND PART IDENTIFICATION



*N for L = $1.5 \sim 6.8 \mu H$

*M for L = $10 \sim 47 \mu H$





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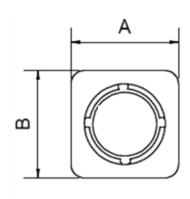
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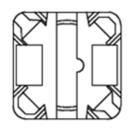


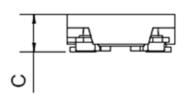


OUTLINE DRAWING:

Mechanical Dimensions

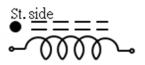




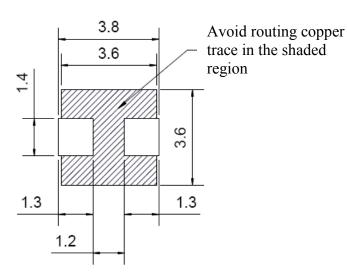


| A | В | C Max. | |
|---------|---------|--------|--|
| 3.2±0.1 | 3.2±0.1 | 2.0 | |

Circuit Schematic



Recommended Land Pattern



Dimension: mm



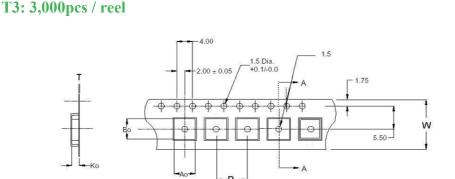
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ASPI-0320S

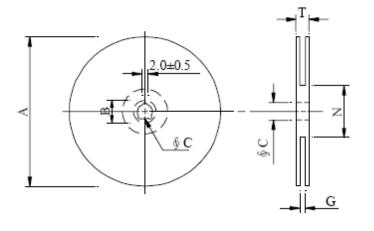




► TAPE & REEL:



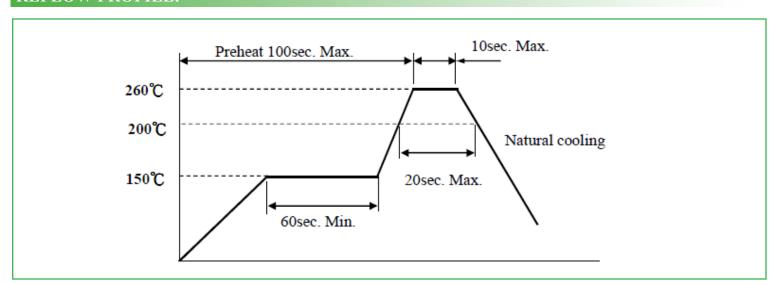
| Ao | 3.6 |
|----|------|
| Bo | 3.3 |
| Ko | 1.35 |
| W | 12 |
| P | 8 |
| T | 0.3 |



| A | 330 |
|---|----------|
| В | 21.0±0.8 |
| C | 13.5±0.5 |
| G | 12.6 |
| N | 99.5 |
| T | 17.2 |

Dimension: mm

REFLOW PROFILE:



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