

# 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

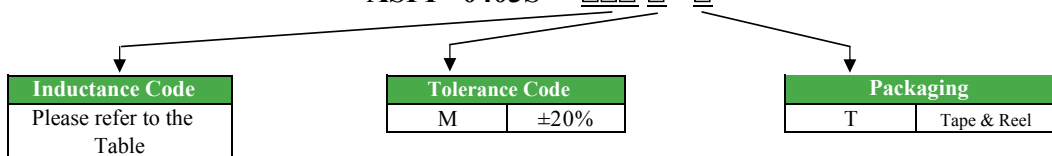
|                        |                       |
|------------------------|-----------------------|
| ABRACON P/N:           | ASPI-0403S-xxx Series |
| Operating temperature: | -40°C to + 85°C       |
| Storage temperature:   | -40°C to + 85°C       |

| Part#           | Inductance<br>( $\mu$ H) | Tol.<br>(%) | RDC<br>( $\Omega$ ) | IDC<br>(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       |
| ASPI-0403S-822M | 8200                     | M           | 29.810              | 0.03       |
| ASPI-0403S-103M | 10000                    | M           | 32.800              | 0.02       |

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

## PART IDENTIFICATIONS:

ASPI - 0403S - □□□ □ - □



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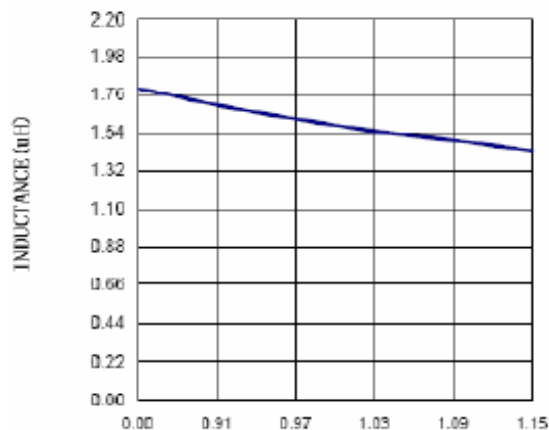


RoHS  
Compliant

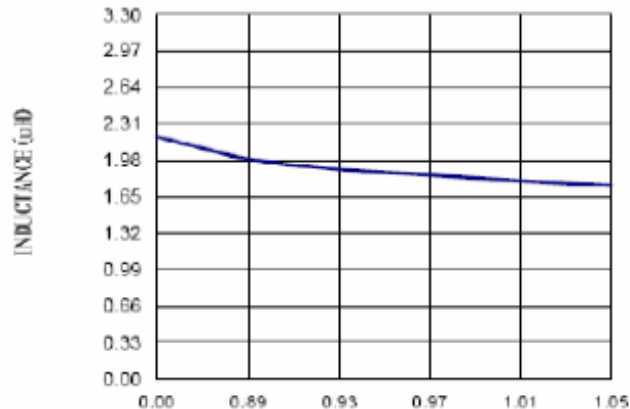


6.6 x 4.45 x 2.92 mm

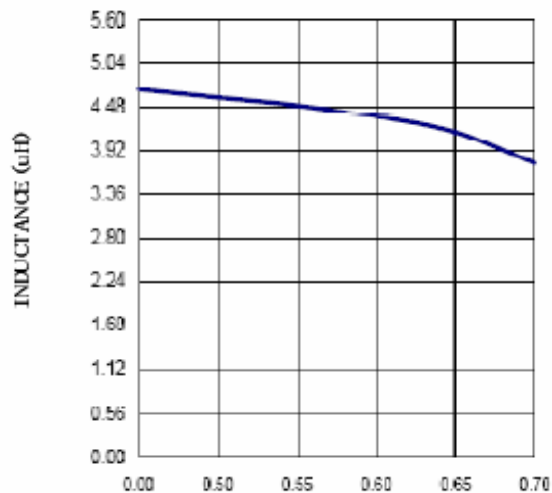
## INDUCTANCE VS CURRENT



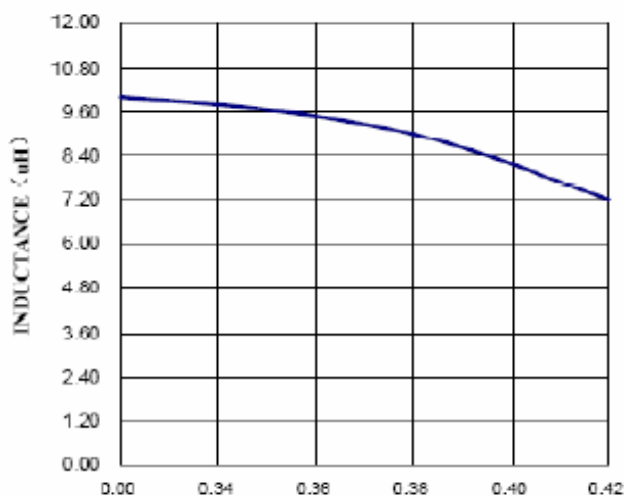
1R8M



2R2M



4R7M



100M



# SMD SHIELDED INDUCTOR

ASPI-0403S

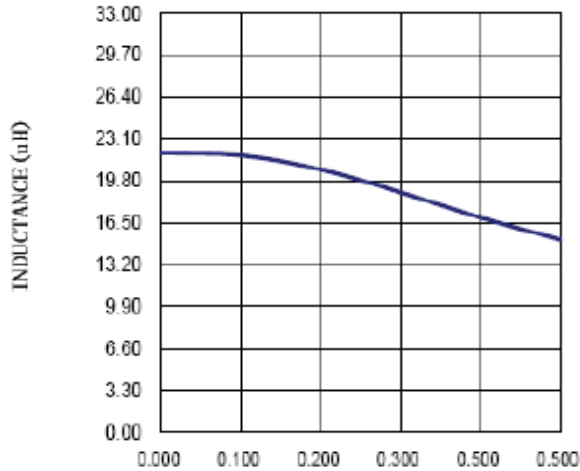


RoHS  
Compliant

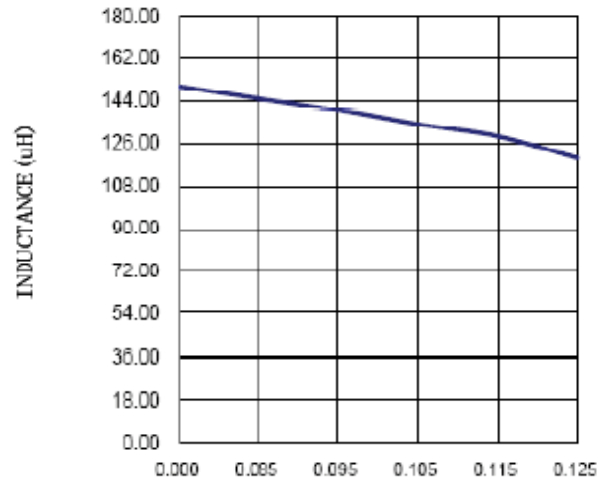


6.6 x 4.45 x 2.92 mm

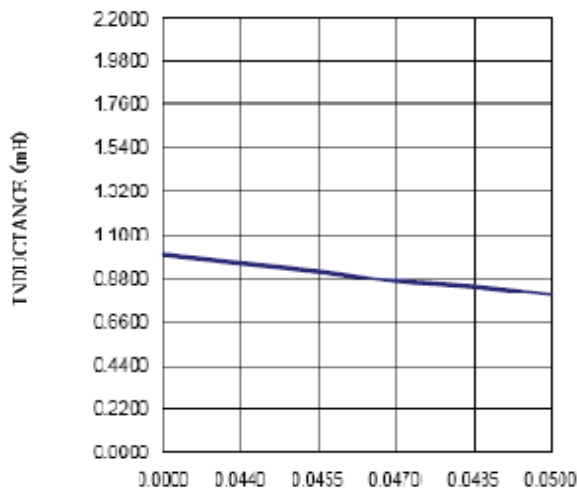
## INDUCTANCE VS CURRENT



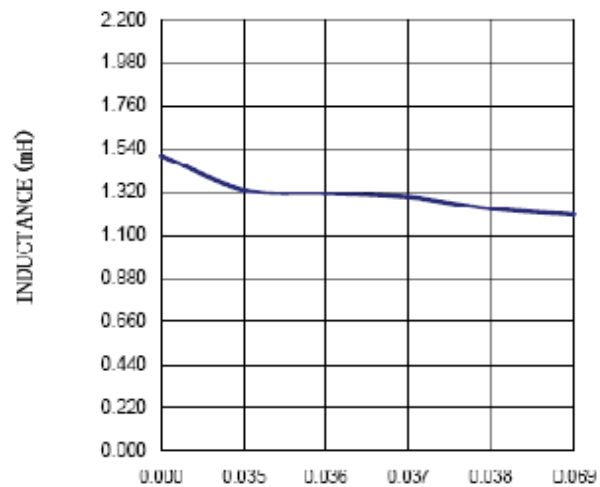
220M  
CURRENT (A)



151M  
CURRENT (A)



102M  
CURRENT (A)



152M  
CURRENT (A)



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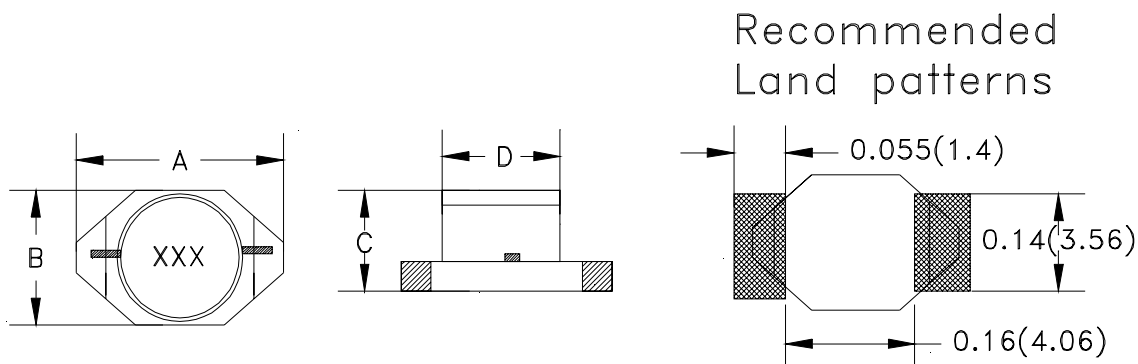


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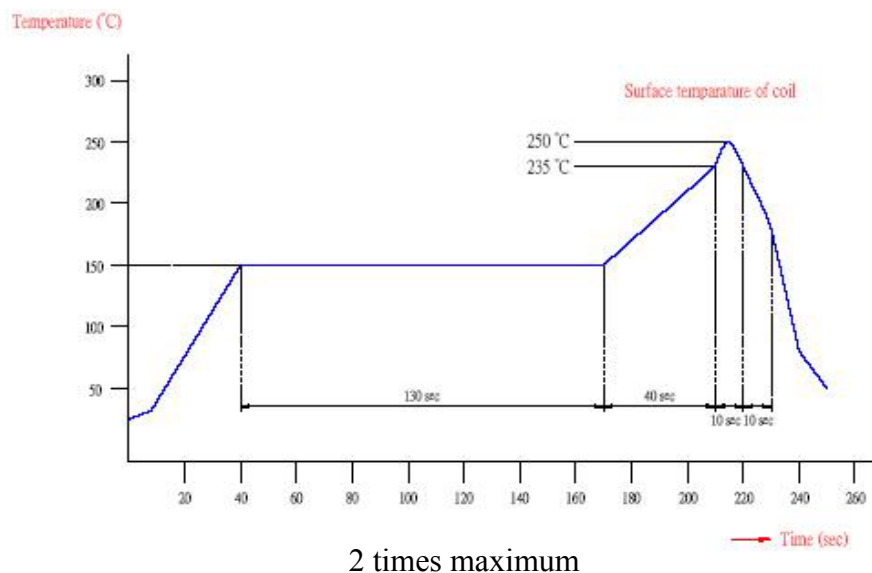
## OUTLINE DIMENSION:



| Part           | A          | B          | 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:



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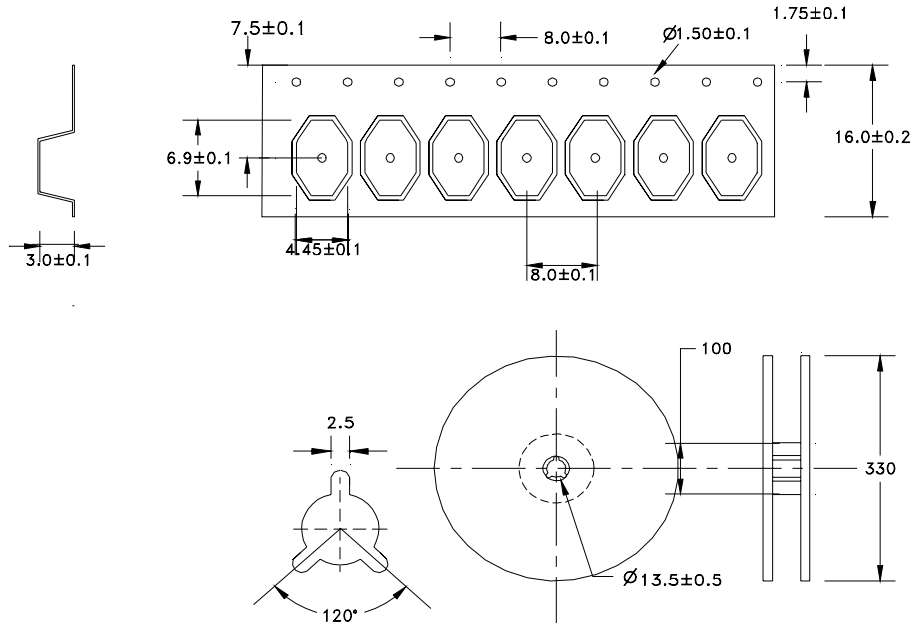
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## TAPE & REEL:

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



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