



### FEATURES:

- Suitable for RoHS reflow profile
- High current rating and low DCR
- Special lead wire design to prevent open circuit failure
- Excellent terminal strength to mechanical stress

### APPLICATIONS:

- OA equipments
- PC and notebook
- LCD TV set
- Power supply

### ELECTRICAL SPECIFICATIONS:

|                        |                  |
|------------------------|------------------|
| Abracon P/N:           | ASPI-0705 Series |
| Operating Temperature: | -40°C to +85°C   |
| Storage Temperature:   | +5°C to +40°C    |

| PART NUMBER   | INDUCTANCE (uH) | Tolerance | DCR (Ω) max | IDC (A) max | Inductance Code |
|---------------|-----------------|-----------|-------------|-------------|-----------------|
| ASPI-0705-100 | 10              | K         | 0.07        | 2.30        | 100             |
| ASPI-0705-120 | 12              | K         | 0.08        | 2.00        | 120             |
| ASPI-0705-150 | 15              | K         | 0.09        | 1.80        | 150             |
| ASPI-0705-180 | 18              | K         | 0.10        | 1.60        | 180             |
| ASPI-0705-220 | 22              | K         | 0.11        | 1.50        | 220             |
| ASPI-0705-270 | 27              | K         | 0.12        | 1.30        | 270             |
| ASPI-0705-330 | 33              | K         | 0.13        | 1.20        | 330             |
| ASPI-0705-390 | 39              | K         | 0.16        | 1.10        | 390             |
| ASPI-0705-470 | 47              | K         | 0.18        | 1.10        | 470             |
| ASPI-0705-560 | 56              | K         | 0.24        | 0.94        | 560             |
| ASPI-0705-680 | 68              | K         | 0.28        | 0.85        | 680             |
| ASPI-0705-820 | 82              | K         | 0.37        | 0.78        | 820             |
| ASPI-0705-101 | 100             | K         | 0.43        | 0.72        | 101             |
| ASPI-0705-121 | 120             | K         | 0.47        | 0.66        | 121             |
| ASPI-0705-151 | 150             | K         | 0.64        | 0.58        | 151             |
| ASPI-0705-181 | 180             | K         | 0.71        | 0.51        | 181             |
| ASPI-0705-221 | 220             | K         | 0.96        | 0.49        | 221             |
| ASPI-0705-271 | 270             | K         | 1.11        | 0.42        | 271             |
| ASPI-0705-331 | 330             | K         | 1.26        | 0.40        | 331             |
| ASPI-0705-391 | 390             | K         | 1.77        | 0.36        | 391             |
| ASPI-0705-471 | 470             | K         | 1.96        | 0.34        | 471             |

### Test Conditions

**Inductance:** 2.52MHz for 10μH ~ 82μH; 1kHz for 100μH ~ 470μH

**Isat:** ΔL/L (initial) ≥ -10% or ΔT=40°C (Ta=20°C), whichever is lower.

### OPTIONS AND PART IDENTIFICATION

ASPI-0705-     -  



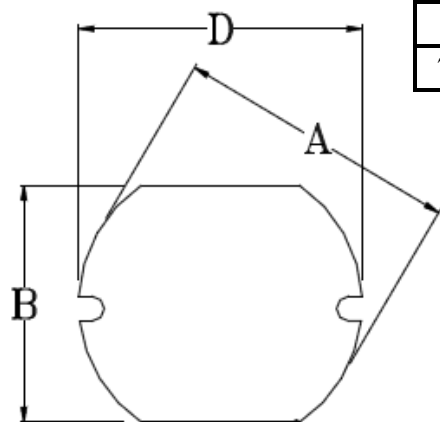
| Inductance Code                 |
|---------------------------------|
| Please refer to the table above |

| Tolerance % |
|-------------|
| K: ± 10%    |

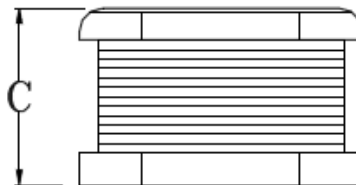
| Packaging                       |
|---------------------------------|
| T: Tape and Reel (1kpcs / reel) |



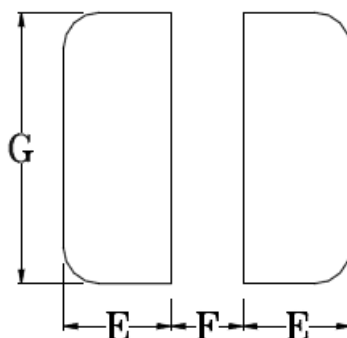
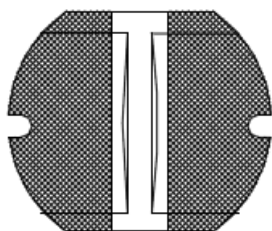
### OUTLINE DRAWING:



| A       | B       | C        | D       | E    | F    | G    |
|---------|---------|----------|---------|------|------|------|
| 7.8±0.3 | 7.0±0.3 | 5.0±0.50 | 7.8±0.3 | 3.00 | 2.00 | 7.50 |

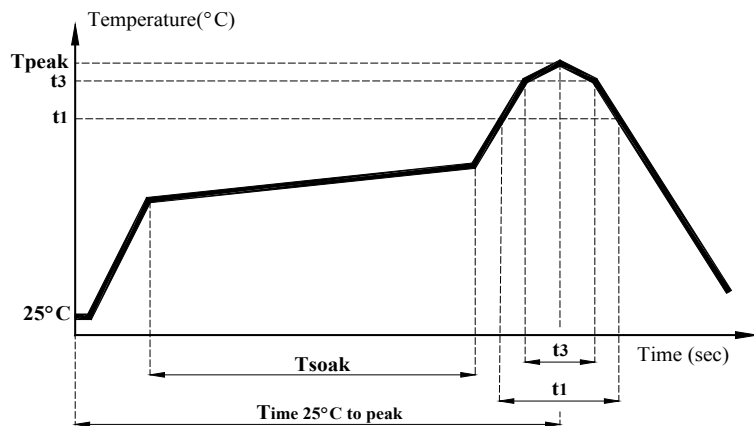


#### Recommended Land Pattern



Dimension: mm

### REFLOW PROFILE:

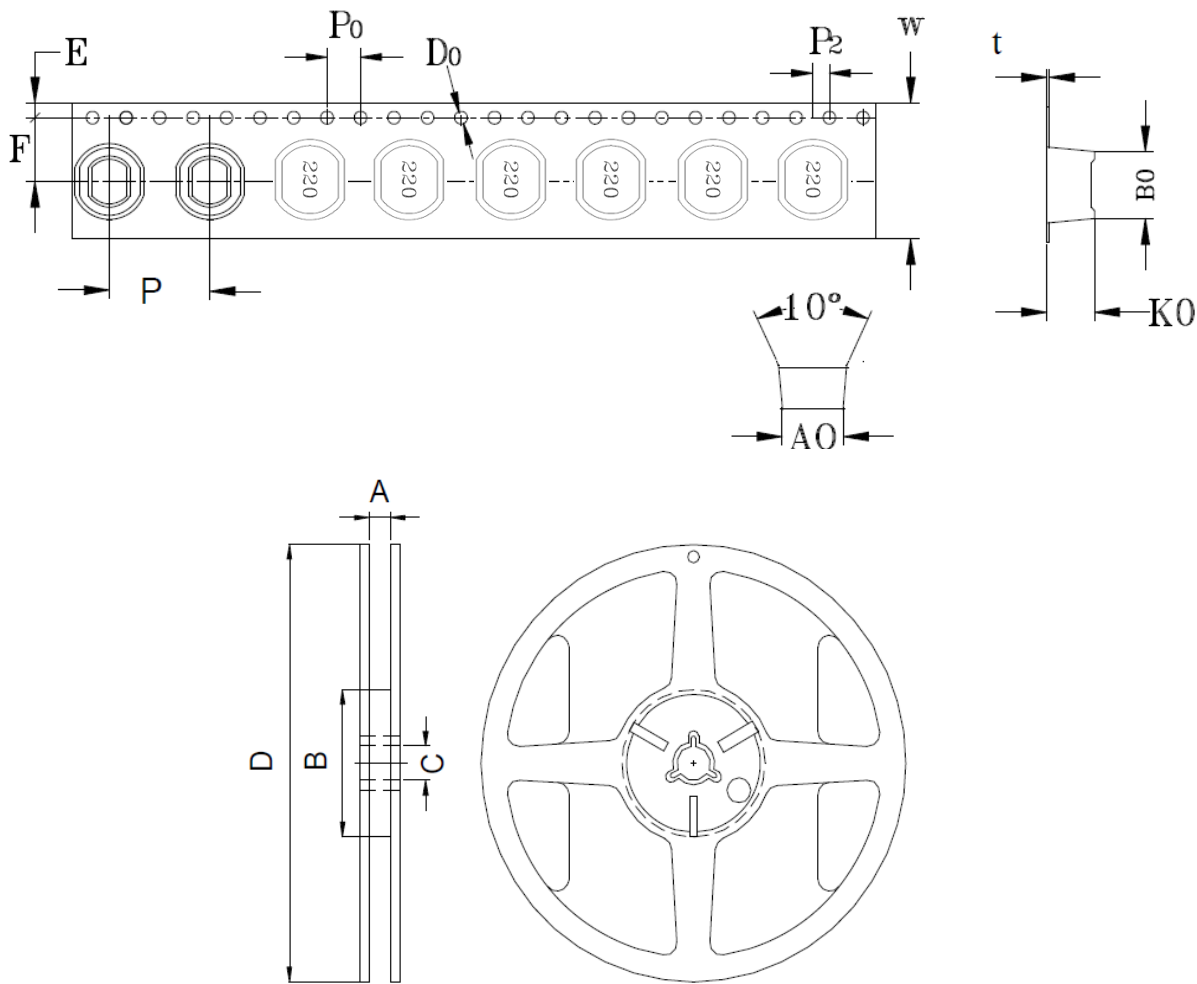


| Item                                       | mark  |                    |
|--------------------------------------------|-------|--------------------|
| Temperature rise gradient                  |       | 3°C/sec (max)      |
| Heating time                               | Tsoak | 50s ~ 150s         |
| Heating temperature                        |       | 120°C ~ 180°C      |
| Time over 217°C                            | t1    | 70 sec             |
| Time within 5°C of actual peak temperature | t3    | 10 ~ 30 sec        |
| Peak temperature                           | Tpeak | 250 ( +0 / -5 °C ) |
| Time 25°C to peak Temperature              |       | 6 minutes max.     |



TAPE & REEL:

T: 1,000pcs / reel



| CARRIER TAPE / SIZE (mm) |           |            |           |            |          |          |         |         |           | REEL 13"×24mm |           |            |           |
|--------------------------|-----------|------------|-----------|------------|----------|----------|---------|---------|-----------|---------------|-----------|------------|-----------|
| A0                       | B0        | K0         | F         | E          | W        | P        | Po      | P2      | t         | A             | B         | C          | D         |
| 7.2 ± 0.1                | 8.1 ± 0.1 | 5.35 ± 0.1 | 7.5 ± 0.1 | 1.75 ± 0.1 | 16 ± 0.3 | 12 ± 0.1 | 4 ± 0.1 | 2 ± 0.1 | 0.4± 0.05 | 16.5 ± 0.2    | 100 ± 0.5 | 13.2 ± 0.3 | 330 ± 1.0 |

Dimension: mm

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