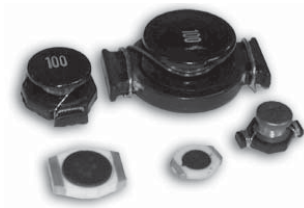


SURFACE-MOUNT POWER INDUCTORS

ASPI SERIES : 0706HC, 1306HC, 5025, 5813, 4209CD, 6215CD



FEATURES:

- Magnetic shielding
- Very small foot print
- Flat-top for pick & place
- Increased size selection guide

OPTIONS:

- Tape & Reel is standard
Bulk packaging available
- Tolerance: 20% is standard
- Custom design available

APPLICATIONS:

- Ideal for Palm-Top and Laptop DC to DC converters
- PDA's flash memory
- Step-up, step-down converters

STANDARD SPECIFICATIONS:

| Part No -XXX | L (μH) ±20% | DCR (Ω) Max | | | | | | I _{DC} (A) Max | | | | | |
|--------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------------------|-------------|-----------|-----------|-------------|-------------|
| | | ASPI 0706HC | ASPI 1306HC | ASPI 5025 | ASPI 5813 | ASPI 4209CD | ASPI 6215CD | ASPI 0706HC | ASPI 1306HC | ASPI 5025 | ASPI 5813 | ASPI 4209CD | ASPI 6215CD |
| R47 | 0.47 | 0.010 | | 0.0012 | | | | 7.70 | | 63 | | | |
| R56 | 0.56 | 0.010 | | | | | | 7.70 | | | | | |
| R78 | 0.78 | | 0.0026 | | | | | | 30 | | | | |
| 1R0 | 1.00 | 0.018 | 0.0030 | | | | | 5.35 | 27 | | | | |
| 1R2 | 1.2 | | | | | 0.08 | | | | | | 2.10 | |
| 1R5 | 1.5 | 0.020 | 0.0040 | | | 0.10 | | 4.52 | 25 | | | 1.90 | |
| 1R8 | 1.8 | | | 0.0048 | | | | | | 22 | | | |
| 2R2 | 2.2 | 0.037 | 0.0060 | 0.0050 | | 0.12 | | 3.52 | 20 | 21 | | 1.60 | |
| 2R7 | 2.7 | | 0.0078 | | | | | | 17 | | | | |
| 3R3 | 3.3 | 0.043 | 0.0085 | | | 0.16 | | 3.00 | 17 | | | 1.30 | |
| 3R9 | 3.9 | | 0.0100 | | | | | | 15 | | | | |
| 4R7 | 4.7 | 0.055 | 0.0135 | | 0.17 | 0.20 | 0.15 | 2.60 | 13 | | 1.50 | 1.10 | 1.60 |
| 5R6 | 5.6 | | 0.0165 | | | | | | 12 | | | | |
| 6R8 | 6.8 | 0.090 | 0.018 | | 0.23 | 0.32 | 0.17 | 2.20 | 11 | | 1.20 | 0.90 | 1.30 |
| 7R8 | 7.8 | | 0.020 | | | | | | 11 | | | | |
| 8R2 | 8.2 | | 0.022 | | | | | | 10 | | | | |
| 100 | 10 | 0.110 | 0.026 | | 0.31 | 0.41 | 0.24 | 1.92 | 10 | | 0.90 | 0.85 | 1.00 |
| 150 | 15 | 0.175 | 0.036 | | | 0.55 | 0.30 | 1.50 | 8 | | | 0.65 | 0.90 |
| 220 | 22 | 0.255 | 0.047 | | 0.58 | 0.85 | 0.42 | 1.20 | 7 | | 0.60 | 0.50 | 0.70 |
| 330 | 33 | 0.370 | 0.070 | | 0.90 | 1.3 | 0.55 | 1.00 | 5 | | 0.55 | 0.40 | 0.60 |
| 400 | 40 | | 0.085 | | | | | | 4.8 | | | | |
| 470 | 47 | 0.480 | 0.090 | | 0.97 | 1.8 | 0.77 | 0.87 | 4.2 | | 0.50 | 0.35 | 0.50 |
| 600 | 60 | 0.700 | | | | | | 0.70 | | | | | |
| 680 | 68 | 0.740 | 0.120 | | 2.00 | 2.5 | 1.10 | 0.66 | 3.8 | | 0.35 | 0.30 | 0.40 |
| 101 | 100 | 1.100 | 0.180 | | 2.65 | 3.5 | 1.60 | 0.54 | 3.3 | | 0.30 | 0.25 | 0.30 |
| 121 | 120 | | | | | | | | | | | | |
| 151 | 150 | | 0.250 | | | 5.0 | 2.50 | | 3.0 | | | 0.18 | 0.25 |
| 221 | 220 | | | | 5.50 | 7.0 | 3.65 | | | | 0.20 | 0.16 | 0.22 |
| 331 | 330 | | | | 8.40 | | 4.65 | | | | 0.16 | | 0.18 |
| 471 | 470 | | | | 11.2 | 15.0 | 6.75 | | | | 0.12 | 0.13 | 0.14 |
| 681 | 680 | | | | 14.2 | | 9.15 | | | | 0.10 | | 0.12 |
| 102 | 1000 | | | | 26.2 | | 14.2 | | | | 0.09 | | 0.10 |

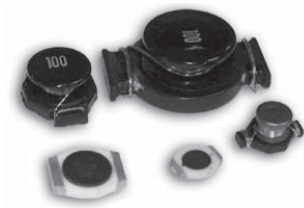
TECHNICAL INFORMATION:

- L Testing Frequency: 100KHz, 0.1VRMS
- Add -M for ±20% inductance tolerance, -T for tape and reel
- L drops 10% typical at IDC except ASPI-5025 is 20% typical
- Operating Temperature: -40°C to +85°C
- See SCD for detail electrical and mechanical specification

Note: All specifications subject to change without notice.

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ASPI SERIES : 0706HC, 1306HC, 5025, 5813, 4209CD, 6215CD



| PART NUMBERS | DIMENSIONS : INCH / MM | | |
|--------------|------------------------|--|--|
| ASPI-0706HC | | | |
| ASPI-1306HC | | | |
| ASPI-5025 | | | |
| ASPI-5813 | | | |
| ASPI-4209CD | | | |
| ASPI-6215CD | | | |

• Tolerance: X.XX = ±0.030, X.XXX=±0.015

Note: All specifications subject to change without notice.