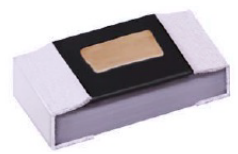


HIGH Q THIN FILM CHIP INDUCTORS



0.60 x 0.30 x 0.23mm

ATFC-0201HQ



FEATURES:

- Photolithographic single layer ceramic chip
- High SRF, excellent Q, superior temperature stability
- Tight tolerance $\pm 0.1\text{nH}$ available
- Self resonant frequency controlled within 10%
- Stable inductance in high frequency circuit
- Highly stable design for critical needs

APPLICATIONS:

- Cell phones and GPS
- VCO, TCXO Circuit and RF Transceiver Module
- Wireless LAN, Bluetooth Module, Communication Appliances

STANDARD SPECIFICATIONS:

PARAMETERS

| | |
|-------------------------|---|
| ABRACON P/N: | ATFC-0201HQ |
| Operating temperature : | -40°C to +85°C |
| Storage temperature: | 25 \pm 3°C; Humidity <80%RH in Tape & Reel. |

| Part Number ATFC-0201HQ- Inductance Code | L(nH) | Tolerance | Q, Min @ 500MHz | SRF Min (GHz) | R _{DC} Max (Ω) | I _{DC} Max (mA) |
|--|-------|-----------|-----------------|---------------|-------------------------|--------------------------|
| ATFC-0201HQ-0N1 | 0.1 | B, C, S | 14 | 6 | 0.05 | 850 |
| ATFC-0201HQ-0N2 | 0.2 | B, C, S | 14 | 6 | 0.05 | 800 |
| ATFC-0201HQ-0N3 | 0.3 | B, C, S | 14 | 6 | 0.05 | 800 |
| ATFC-0201HQ-0N4 | 0.4 | B, C, S | 14 | 6 | 0.05 | 750 |
| ATFC-0201HQ-0N5 | 0.5 | B, C, S | 14 | 6 | 0.10 | 750 |
| ATFC-0201HQ-0N6 | 0.6 | B, C, S | 14 | 6 | 0.10 | 750 |
| ATFC-0201HQ-0N7 | 0.7 | B, C, S | 14 | 6 | 0.10 | 600 |
| ATFC-0201HQ-0N8 | 0.8 | B, C, S | 14 | 6 | 0.10 | 600 |
| ATFC-0201HQ-0N9 | 0.9 | B, C, S | 14 | 6 | 0.10 | 600 |
| ATFC-0201HQ-1N0 | 1.0 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N1 | 1.1 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N2 | 1.2 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N3 | 1.3 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N4 | 1.4 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N5 | 1.5 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N6 | 1.6 | B, C, S | 14 | 6 | 0.15 | 600 |
| ATFC-0201HQ-1N7 | 1.7 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-1N8 | 1.8 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-1N9 | 1.9 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-2N0 | 2.0 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-2N1 | 2.1 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-2N2 | 2.2 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-2N3 | 2.3 | B, C, S | 14 | 6 | 0.20 | 500 |
| ATFC-0201HQ-2N4 | 2.4 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-2N5 | 2.5 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-2N6 | 2.6 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-2N7 | 2.7 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-2N8 | 2.8 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-2N9 | 2.9 | B, C, S | 14 | 6 | 0.25 | 450 |
| ATFC-0201HQ-3N0 | 3.0 | B, C, S | 14 | 6 | 0.30 | 400 |
| ATFC-0201HQ-3N1 | 3.1 | B, C, S | 14 | 6 | 0.30 | 400 |
| ATFC-0201HQ-3N2 | 3.2 | B, C, S | 14 | 6 | 0.30 | 400 |
| ATFC-0201HQ-3N3 | 3.3 | B, C, S | 14 | 6 | 0.30 | 400 |
| ATFC-0201HQ-3N4 | 3.4 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-3N5 | 3.5 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-3N6 | 3.6 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-3N7 | 3.7 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-3N8 | 3.8 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-3N9 | 3.9 | B, C, S | 14 | 6 | 0.40 | 350 |
| ATFC-0201HQ-4N0 | 4.0 | B, C, S | 14 | 6 | 0.40 | 350 |

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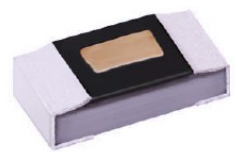


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Revised: 04.05.13

HIGH Q THIN FILM CHIP INDUCTORS



0.60 x 0.30 x 0.23mm

ATFC-0201HQ



Test Conditions and Equipments

Inductance (L)

- a. Test equipment: Agilent4287A+Agilent16196C
- b. Test frequency: 500MHz

PART IDENTIFICATION:

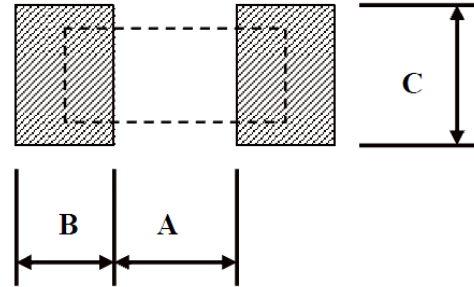
ATFC- 0201HQ- -

| Inductance Code | Inductance Tolerance | Packaging |
|---------------------------------|-----------------------|-----------------------------------|
| Please refer to the table above | B: $\pm 0.1\text{nH}$ | T: Tape and Reel (10kpcs reel) |
| | C: $\pm 0.2\text{nH}$ | |
| | S: $\pm 0.3\text{nH}$ | |

OUTLINE DIMENSIONS:



Recommended Land Pattern

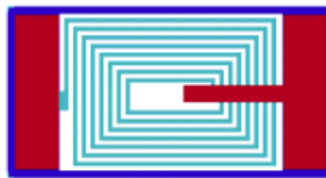
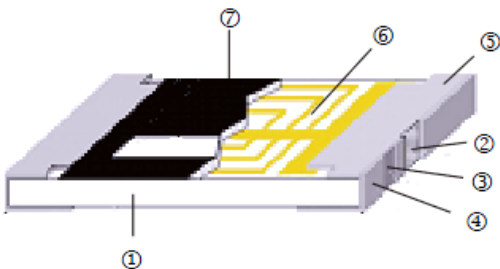


| A | B | C | D |
|-----------------|-----------------|-----------------|-----------------|
| 0.60 \pm 0.05 | 0.30 \pm 0.05 | 0.23 \pm 0.05 | 0.15 \pm 0.05 |

| A | B | C |
|------|------|----------------|
| 0.30 | 0.25 | 0.30 \pm 0.2 |

Dimension: mm

Materials

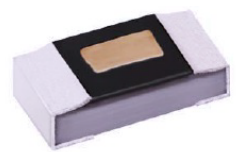


| No. | Material |
|-----|-------------------------|
| 1 | Alumina Substrate |
| 2 | Inner Electrode (Ni-Cr) |
| 3 | Barrier Layer (Ni) |
| 4 | External Electrode (Sn) |
| 5 | Edge Electrode |
| 6 | Cu Circuits |
| 7 | Overcoat |

HIGH Q THIN FILM CHIP INDUCTORS

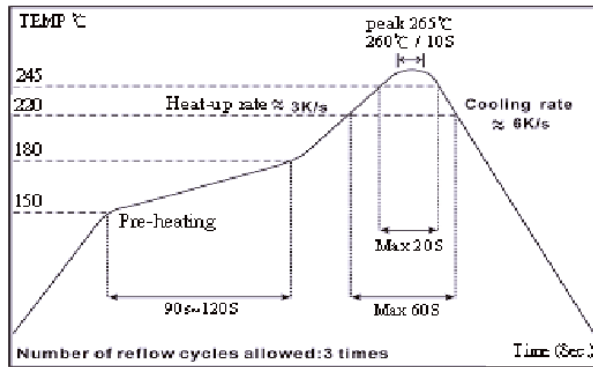
ATFC-0201HQ

 RoHS/RoHS II



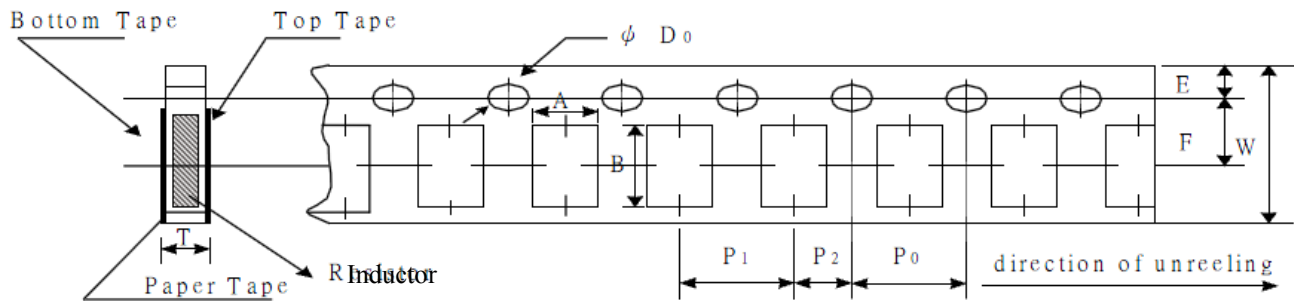
0.60 x 0.30 x 0.23mm

REFLOW PROFILE:

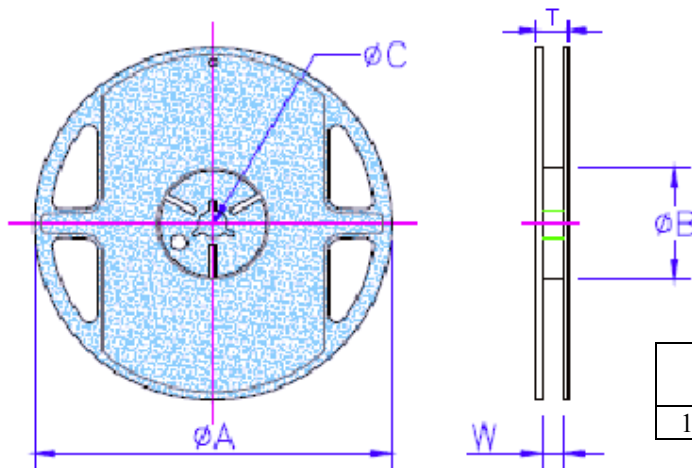


TAPE & REEL:

T= tape and reel (10,000pc/reel)



| A | B | W | E | F | P0 | P1 | P2 | ΦD0 | T |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.40±0.05 | 0.70±0.05 | 8.00±0.10 | 1.75±0.05 | 3.50±0.05 | 4.00±0.10 | 2.00±0.05 | 2.00±0.05 | 1.55±0.03 | 0.42±0.02 |



| ΦA | ΦB | ΦC | W | T |
|---------|----------|-----------|---------|----------|
| 178±1.0 | 60.0±1.0 | 13.5±0.70 | 9.5±1.0 | 11.5±1.0 |

Dimension: mm

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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