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|---|--------------------------------------|-------------------------|
|  | DATASHEET | Part No. |
| | Multi-layer ceramic capacitor | ACS05X16N475KNLG |

CUSTOMER :

DATA SHEET

| | |
|----------------------|--|
| Product name | : Multi-layer ceramic capacitor |
| Part number | : ACS05X16N475KNLG |
| Features | : 0805inch / 2012mm, 4.7uF, ±10%, X7R, DC 16V |
| Revision date | : 2020/08/04 |

| | |
|---|---|
|  | Address : 380, NAMDONGSEO-RO, NAMDONG-GU INCHEON, 21629 KOREA (AMOTECH. CO., LTD) |
| | Contact : TEL) 82-32-821-0363, FAX) 82-32-811-0283 |

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|  | DATASHEET | Part No. |
| | Multi-layer ceramic capacitor | ACS05X16N475KNLG |

1. Part descriptions :

1.1 Feature :

- 0805inch / 2012mm size
- Wide range of capacitance and voltage
- Highly reliable performance
- Tape & Reel for surface mount assembly
- Stable temperature dependence of capacitance
- RoHS compliance, Halogen free

1.2. Applications :

- General electronic circuit
- General power supply circuit (SMPS etc.)
- DC-DC converter

1.3. Circuit Applications :

- Coupling & Decoupling
- Filtering
- Bypass and DC Blocking

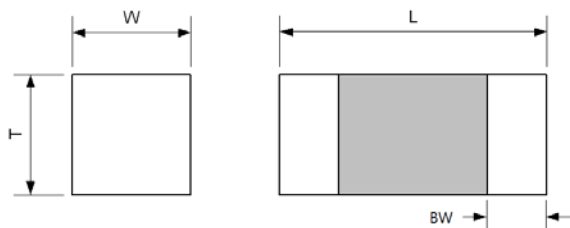
2. Specifications

2.1 Electrical characteristics

| | |
|--|----------------------------|
| Part number | ACS05X16N475KNLG (General) |
| Material | X7R |
| Rated voltage(Vdc) [V] | 16 |
| Capacitance[μF] @1kHz, 1Vrms | 4.7 (\pm 10%) |
| Dissipation factor @1kHz, 1Vrms | 10% Max. |
| Insulation resistance[Ω*F] @Vdc | 50 Min. |
| Operating temperature[$^{\circ}$C] | -55 ~ +125 |

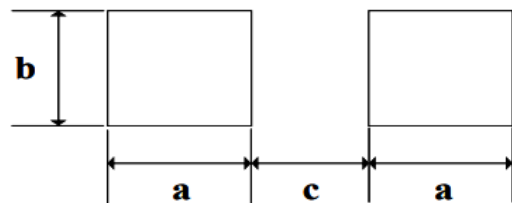
2.2 Mechanical dimension and solder pad

■ Mechanical dimension



| | L | W | T | BW |
|------|-----------|-----------|-----------|-----------|
| Size | 2.0 | 1.25 | 1.25 | 0.5 |
| (mm) | \pm 0.1 | \pm 0.1 | \pm 0.1 | \pm 0.2 |

■ Recommended solder pad



| | a | b | c |
|------|-----------|-----------|-----------|
| Size | 0.7 | 1.3 | 1.2 |
| (mm) | \pm 0.1 | \pm 0.1 | \pm 0.2 |

※ Note: Please contact local sales if you want to order low profile products or some special products are excluded from this data sheet.

2.3. Typical performance data

