

Solid Tantalum Surface Mount Chip Capacitors, Molded Case, Ultra Flat Low Profile



PERFORMANCE / ELECTRICAL CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C
(above 85 °C, voltage derating is required)

Capacitance Range: 0.1 µF to 220 µF

Capacitance Tolerance: ± 10 %, ± 20 %

Voltage Rating: 2.5 V_{DC} to 35 V_{DC}

FEATURES

- Small size, low profile
- Terminations: 100 % matte tin
- MSL level: 1 (UA case size), 3 (UB case size)
- Compatible with “high volume” automatic pick and place equipment
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS COMPLIANT
HALOGEN FREE
Available
GREEN
(5-2008) Available

APPLICATIONS

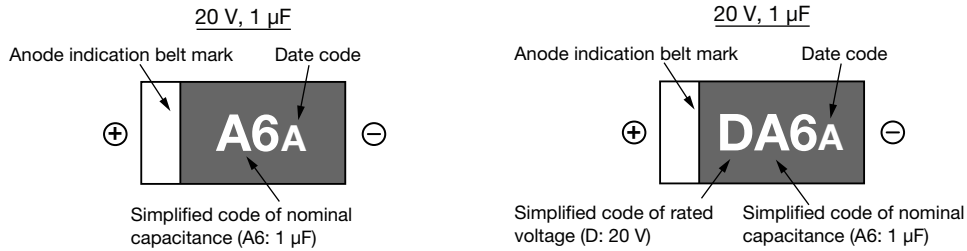
- Industrial
- General purpose

| ORDERING INFORMATION | | | | | | | |
|----------------------|-----------------------------------|---|--|--------------------------|--|------------------------------|---------------------------------|
| TMCU | A | 1G | 107 | M | TR | (2) | F |
| TYPE | CASE CODE | DC VOLTAGE RATING AT +85 °C | CAPACITANCE (µF) | CAPACITANCE TOLERANCE | PACKAGING POLARITY | (OPTIONAL) | TERMINAL CODE |
| | See Ratings and Case Codes table. | 0E = 2.5 V 0G = 4 V 0J = 6.3 V (7 V) 1A = 10 V 1C = 16 V 1D = 20 V 1E = 25 V 1V = 35 V | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | K = ± 10 % M = ± 20 % | TR = 7" reel, cathodes close to perforation side | Halogen-free (special order) | F = lead (Pb)-free terminations |

| DIMENSIONS in inches [millimeters] | | | | | | |
|------------------------------------|----------|------------------------------|------------------------------|--------------------------|------------------------------|------------------------------|
| | | | | | | |
| CASE CODE | EIA SIZE | L | W | H | l | a |
| UA | 3216-12 | 0.126 ± 0.008 [3.2 ± 0.2] | 0.063 ± 0.008 [1.6 ± 0.2] | 0.047 max. [1.2 max.] | 0.030 ± 0.012 [0.8 ± 0.3] | 0.047 ± 0.008 [1.2 ± 0.2] |
| UB | 3528-12 | 0.138 ± 0.008 [3.5 ± 0.2] | 0.110 ± 0.008 [2.8 ± 0.2] | 0.047 max. [1.2 max.] | 0.030 ± 0.012 [0.8 ± 0.3] | 0.071 ± 0.008 [1.8 ± 0.2] |



| RATINGS AND CASE CODES | | | | | | | | |
|------------------------|---------|---------|-------------|---------|---------|---------|------|---------|
| μ F | 2.5 V | 4 V | 6.3 V (7 V) | 10 V | 16 V | 20 V | 25 V | 35 V |
| 0.10 | | | | | | | | UA |
| 0.15 | | | | | | | | UA |
| 0.22 | | | | | | | | UA |
| 0.33 | | | | | | | UA | |
| 0.47 | | | | | | | UA | |
| 0.68 | | | | | | UA | UA | |
| 1.0 | | | | | | UA / UB | UA | UA / UB |
| 1.5 | | | | | UA | UA / UB | UB | UB |
| 2.2 | | | | | UA / UB | UA / UB | UB | UB |
| 3.3 | | | | | UA / UB | UA / UB | UB | |
| 4.7 | | | | UA | UA / UB | UB | UB | |
| 6.8 | | | | UA | UA / UB | UB | | |
| 10 | | | UA | UA | UA / UB | | | |
| 15 | UA | UA | UA | UA / UB | UB | | | |
| 22 | UA | UA | UA / UB | UA / UB | UB | | | |
| 33 | UA / UB | UA / UB | UA / UB | UB | | | | |
| 47 | UA / UB | UA / UB | UA / UB | UB | | | | |
| 68 | UB | UA / UB | UB | | | | | |
| 100 | UB | UA / UB | UB | | | | | |
| 150 | UB | UB | | | | | | |
| 220 | UB | UB | | | | | | |

MARKING

CAPACITANCE AND VOLTAGE MARKING

| μF | 2.5 V | 4 V | 6.3 V | 10 V | 16 V | 20 V | 25 V | 35 V |
|------|-------|-----|-------|------|--|--|------|------|
| 0.10 | | | | | | | | VA5 |
| 0.15 | | | | | | | | VE5 |
| 0.22 | | | | | | | | VJ5 |
| 0.33 | | | | | | | EN5 | |
| 0.47 | | | | | | | ES5 | |
| 0.68 | | | | | | DW5 | EW5 | |
| 1.0 | | | | | | DA6 ⁽¹⁾ A6 ⁽²⁾ | EA6 | VA6 |
| 1.5 | | | | | CE6 | DE6 ⁽¹⁾ E6 ⁽²⁾ | EE6 | VE6 |
| 2.2 | | | | | CJ6 ⁽¹⁾ J6 ⁽²⁾ | DJ6 | EJ6 | VJ6 |
| 3.3 | | | | | CN6 | DN6 | EN6 | |
| 4.7 | | | | AS6 | CS6 | DS6 | ES6 | |
| 6.8 | | | | AW6 | CW6 | DW6 | | |
| 10 | | | JA7 | AA7 | CA7 | | | |
| 15 | eE7 | GE7 | JE7 | AE7 | CE7 | | | |
| 22 | eJ7 | GJ7 | JJ7 | AJ7 | CJ7 | | | |
| 33 | eN7 | GN7 | JN7 | AN7 | | | | |
| 47 | eS7 | GS7 | JS7 | AS7 | | | | |
| 68 | eW7 | GW7 | JW7 | | | | | |
| 100 | eA8 | GA8 | JA8 | | | | | |
| 220 | eE8 | GE8 | | | | | | |
| 330 | eJ8 | GJ8 | | | | | | |

Notes

- (1) Marking on UA case
 (2) Marking on UB case

DATE CODE

| YEAR | MONTH | | | | | | | | | | | |
|------|-------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2013 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2014 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2015 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2016 | n | p | q | r | s | t | u | v | w | x | y | z |



| STANDARD RATINGS | | | | | | |
|---|--------------|------------------|-------------------------------------|-------------------------------------|--|---|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DCL AT +25 °C (μ A) | MAX. DF AT +25 °C, 120 Hz (%) | MAX. ESR AT +25 °C, 100 kHz (Ω) | MAX. RIPPLE, 100 kHz I _{RMS} (A) |
| 2.5 V_{DC} AT +85 °C; 1.6 V_{DC} AT +125 °C | | | | | | |
| 15 | UA | TMCUA0E156(1)TRF | 0.5 | 8 | 3.0 | 0.161 |
| 22 | UA | TMCUA0E226(1)TRF | 0.6 | 8 | 1.8 | 0.208 |
| 33 | UA | TMCUA0E336(1)TRF | 1.7 | 12 | 1.8 | 0.208 |
| 33 | UB | TMCUB0E336(1)TRF | 0.8 | 12 | 1.7 | 0.238 |
| 47 | UA | TMCUA0E476(1)TRF | 2.4 | 18 | 1.8 | 0.208 |
| 47 | UB | TMCUB0E476(1)TRF | 1.2 | 12 | 1.7 | 0.238 |
| 68 | UB | TMCUB0E686(1)TRF | 1.7 | 15 | 1.7 | 0.238 |
| 100 | UB | TMCUB0E107(1)TRF | 5.0 | 20 | 1.1 | 0.295 |
| 150 | UB | TMCUB0E157(1)TRF | 7.5 | 30 | 1.1 | 0.295 |
| 220 | UB | TMCUB0E227(1)TRF | 11.0 | 30 | 1.1 | 0.295 |
| 4 V_{DC} AT +85 °C; 2.5 V_{DC} AT +125 °C | | | | | | |
| 15 | UA | TMCUA0G156(1)TRF | 0.6 | 8 | 3.0 | 0.161 |
| 22 | UA | TMCUA0G226(1)TRF | 0.9 | 8 | 1.8 | 0.208 |
| 33 | UA | TMCUA0G336(1)TRF | 2.6 | 12 | 1.8 | 0.208 |
| 33 | UB | TMCUB0G336(1)TRF | 1.3 | 12 | 1.7 | 0.238 |
| 47 | UA | TMCUA0G476(1)TRF | 3.8 | 18 | 1.8 | 0.208 |
| 47 | UB | TMCUB0G476(1)TRF | 1.9 | 12 | 1.7 | 0.238 |
| 68 | UA | TMCUA0G686(1)TRF | 5.4 | 30 | 4.0 | 0.140 |
| 68 | UB | TMCUB0G686(1)TRF | 2.7 | 15 | 1.7 | 0.238 |
| 100 | UA | TMCUA0G107MTRF | 20.0 | 30 | 2.9 | 0.164 |
| 100 | UB | TMCUB0G107(1)TRF | 8.0 | 20 | 1.1 | 0.295 |
| 150 | UB | TMCUB0G157(1)TRF | 12.0 | 30 | 1.1 | 0.295 |
| 220 | UB | TMCUB0G227MTRF | 17.6 | 30 | 1.1 | 0.295 |
| 6.3 V_{DC} (7 V_{DC}) AT +85 °C; 4 V_{DC} AT +125 °C | | | | | | |
| 10 | UA | TMCUA0J106(1)TRF | 0.7 | 8 | 4.0 | 0.140 |
| 15 | UA | TMCUA0J156(1)TRF | 1.1 | 8 | 2.9 | 0.164 |
| 22 | UA | TMCUA0J226(1)TRF | 2.8 | 12 | 2.9 | 0.164 |
| 22 | UB | TMCUB0J226(1)TRF | 1.4 | 10 | 1.7 | 0.238 |
| 33 | UA | TMCUA0J336(1)TRF | 4.2 | 20 | 2.9 | 0.164 |
| 33 | UB | TMCUB0J336(1)TRF | 2.3 | 10 | 1.7 | 0.238 |
| 47 | UA | TMCUA0J476MTRF | 5.9 | 20 | 2.9 | 0.164 |
| 47 | UB | TMCUB0J476(1)TRF | 3.3 | 12 | 1.7 | 0.238 |
| 68 | UB | TMCUB0J686(1)TRF | 8.6 | 20 | 1.7 | 0.238 |
| 100 | UB | TMCUB0J107MTRF | 12.6 | 20 | 1.1 | 0.295 |
| 10 V_{DC} AT +85 °C; 6.3 V_{DC} AT +125 °C | | | | | | |
| 4.7 | UA | TMCUA1A475(1)TRF | 0.5 | 6 | 4.0 | 0.140 |
| 6.8 | UA | TMCUA1A685(1)TRF | 0.7 | 6 | 4.0 | 0.140 |
| 10 | UA | TMCUA1A106(1)TRF | 1.0 | 8 | 4.0 | 0.140 |
| 15 | UA | TMCUA1A156(1)TRF | 3.0 | 12 | 2.9 | 0.164 |
| 15 | UB | TMCUB1A156(1)TRF | 1.5 | 10 | 2.8 | 0.185 |
| 22 | UA | TMCUA1A226MTRF | 4.4 | 18 | 2.9 | 0.164 |
| 22 | UB | TMCUB1A226(1)TRF | 2.2 | 10 | 1.7 | 0.238 |
| 33 | UB | TMCUB1A336(1)TRF | 6.6 | 12 | 1.7 | 0.238 |
| 47 | UB | TMCUB1A476MTRF | 9.4 | 30 | 1.7 | 0.238 |
| 16 V_{DC} AT +85 °C; 10 V_{DC} AT +125 °C | | | | | | |
| 1.5 | UA | TMCUA1C155(1)TRF | 0.5 | 6 | 8.8 | 0.094 |
| 2.2 | UA | TMCUA1C225(1)TRF | 0.5 | 6 | 7.7 | 0.101 |
| 2.2 | UB | TMCUB1C225(1)TRF | 0.5 | 6 | 6.6 | 0.121 |
| 3.3 | UA | TMCUA1C335(1)TRF | 0.5 | 6 | 7.7 | 0.101 |
| 3.3 | UB | TMCUB1C335(1)TRF | 0.5 | 6 | 4.0 | 0.155 |
| 4.7 | UA | TMCUA1C475(1)TRF | 0.8 | 8 | 4.0 | 0.140 |
| 4.7 | UB | TMCUB1C475(1)TRF | 0.8 | 6 | 4.0 | 0.155 |

Note

- Part number definition:
 - (1) Tolerance: For 10 % tolerance, specify "K"; for 20 % tolerance, change to "M"



| STANDARD RATINGS | | | | | | |
|--|--------------|------------------|-------------------------------------|-------------------------------------|--|---|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DCL AT +25 °C (μ A) | MAX. DF AT +25 °C, 120 Hz (%) | MAX. ESR AT +25 °C, 100 kHz (Ω) | MAX. RIPPLE, 100 kHz I _{RMS} (A) |
| 16 V_{DC} AT +85 °C; 10 V_{DC} AT +125 °C | | | | | | |
| 6.8 | UA | TMCUA1C685(1)TRF | 1.1 | 12 | 4.0 | 0.140 |
| 6.8 | UB | TMCUB1C685(1)TRF | 1.1 | 6 | 4.0 | 0.155 |
| 10 | UA | TMCUA1C106MTRF | 1.6 | 18 | 3.3 | 0.154 |
| 10 | UB | TMCUB1C106(1)TRF | 1.6 | 8 | 2.8 | 0.185 |
| 15 | UB | TMCUB1C156(1)TRF | 4.8 | 12 | 2.8 | 0.185 |
| 22 | UB | TMCUB1C226MTRF | 7.0 | 18 | 1.7 | 0.238 |
| 20 V_{DC} AT +85 °C; 13 V_{DC} AT +125 °C | | | | | | |
| 0.68 | UA | TMCUA1D684(1)TRF | 0.5 | 4 | 19.8 | 0.063 |
| 1.0 | UA | TMCUA1D105(1)TRF | 0.5 | 4 | 16.5 | 0.069 |
| 1.0 | UB | TMCUB1D105(1)TRF | 0.5 | 4 | 8.8 | 0.104 |
| 1.5 | UA | TMCUA1D155(1)TRF | 0.5 | 6 | 16.5 | 0.069 |
| 1.5 | UB | TMCUB1D155(1)TRF | 0.5 | 6 | 8.8 | 0.104 |
| 2.2 | UA | TMCUA1D225(1)TRF | 0.5 | 6 | 7.7 | 0.101 |
| 2.2 | UB | TMCUB1D225(1)TRF | 0.5 | 6 | 6.6 | 0.121 |
| 3.3 | UA | TMCUA1D335MTRF | 0.7 | 6 | 7.7 | 0.101 |
| 3.3 | UB | TMCUB1D335(1)TRF | 0.7 | 6 | 4.0 | 0.155 |
| 4.7 | UB | TMCUB1D475(1)TRF | 0.9 | 6 | 4.0 | 0.155 |
| 6.8 | UB | TMCUB1D685MTRF | 1.4 | 6 | 2.8 | 0.185 |
| 25 V_{DC} AT +85 °C; 16 V_{DC} AT +125 °C | | | | | | |
| 0.33 | UA | TMCUA1E334(1)TRF | 0.5 | 4 | 26.4 | 0.054 |
| 0.47 | UA | TMCUA1E474(1)TRF | 0.5 | 4 | 22.0 | 0.060 |
| 0.68 | UA | TMCUA1E684(1)TRF | 0.5 | 8 | 19.8 | 0.063 |
| 1.0 | UA | TMCUA1E105(1)TRF | 0.5 | 8 | 16.5 | 0.069 |
| 1.5 | UB | TMCUB1E155(1)TRF | 0.5 | 6 | 8.8 | 0.104 |
| 2.2 | UB | TMCUB1E225(1)TRF | 0.6 | 6 | 6.6 | 0.121 |
| 3.3 | UB | TMCUB1E335(1)TRF | 0.8 | 6 | 4.0 | 0.155 |
| 4.7 | UB | TMCUB1E475MTRF | 1.2 | 6 | 4.0 | 0.155 |
| 35 V_{DC} AT +85 °C; 22 V_{DC} AT +125 °C | | | | | | |
| 0.10 | UA | TMCUA1V104(1)TRF | 0.5 | 4 | 40.0 | 0.044 |
| 0.15 | UA | TMCUA1V154(1)TRF | 0.5 | 4 | 40.0 | 0.044 |
| 0.22 | UA | TMCUA1V224(1)TRF | 0.5 | 4 | 40.0 | 0.044 |
| 1.0 | UA | TMCUA1V105MTRF | 0.5 | 8 | 16.5 | 0.069 |
| 1.0 | UB | TMCUB1V105(1)TRF | 0.5 | 6 | 8.8 | 0.104 |
| 1.5 | UB | TMCUB1V155(1)TRF | 0.5 | 6 | 8.8 | 0.104 |
| 2.2 | UB | TMCUB1V225MTRF | 0.8 | 6 | 6.6 | 0.121 |

Note

- Part number definition:
 - (1) Tolerance: For 10 % tolerance, specify "K"; for 20 % tolerance, change to "M"

| RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperature below +85 °C) | |
|--|-------------------|
| CAPACITOR VOLTAGE RATING | OPERATING VOLTAGE |
| 2.5 | 1.2 |
| 4.0 | 2.0 |
| 6.3 (7.0) | 3.1 (3.5) |
| 10 | 5.0 |
| 16 | 8.0 |
| 20 | 10.0 |
| 25 | 12.5 |
| 35 | 17.5 |



| POWER DISSIPATION | |
|-------------------|---|
| CASE CODE | MAXIMUM PERMISSIBLE POWER DISSIPATION AT +25 °C (W) IN FREE AIR |
| UA | 0.078 |
| UB | 0.096 |

| STANDARD PACKAGING QUANTITY | |
|-----------------------------|-------------------|
| CASE CODE | UNITS PER 7" REEL |
| UA | 3000 |
| UB | 3000 |

| PERFORMANCE CHARACTERISTICS | | | | | | |
|-----------------------------|---|---------------------------------|---|--------------|--|--|
| ITEM | CONDITION | POST TEST PERFORMANCE | | | | |
| | | | Specified initial value | -55 °C | +85 °C | +125 °C |
| Temperature characteristics | Measure the specified characteristics in each stage | Capacitance change | - | -12 % to 0 % | 0 % to 10 % | 0 % to 12 % |
| | | Dissipation factor (%), maximum | 4 | 5 | 4 | 5 |
| | | | 6 | 8 | 6 | 6 |
| | | | 8 | 12 | 10 | 12 |
| | | | 10 | 14 | 12 | 14 |
| | | | 12 | 16 | 14 | 16 |
| | | | 18 | 34 | 20 | 22 |
| | | | 20 | 38 | 22 | 24 |
| | | | 30 | 60 | 30 | 40 |
| | | Leakage current | Refer to Standard Ratings table | - | 1000 % specified initial value or less | 1250 % specified initial value or less |
| Solder heat resistance | Solder Dip 260 °C ± 5 °C, 10 s ± 1 s Reflow 260 °C, 10 s ± 1 s | Capacitance change | Within ± 5 % of initial value | | | |
| | | Dissipation factor | Initial specified value or less | | | |
| | | Leakage current | Initial specified value or less | | | |
| Moisture resistance no load | Leave at 40 °C and 90 % to 95 % RH for 500 h | Capacitance change | Within ± 10 % of initial value | | | |
| | | Dissipation factor | Initial specified value or less | | | |
| | | Leakage current | Initial specified value or less | | | |
| High temperature load | 85 °C. The rated voltage is applied for 2000 h | Capacitance change | Within ± 10 % of initial value | | | |
| | | Dissipation factor | Initial specified value or less | | | |
| | | Leakage current | Shall not exceed 125 % of initial specified value | | | |
| Thermal shock | Leave at -55 °C, normal temperature, 125 °C, and normal temperature for 30 min., 3 min, 30 min, and 3 min. Repeat this operation 5 times running. | Capacitance change | Within ± 5 % of initial value | | | |
| | | Dissipation factor | Initial specified value or less | | | |
| | | Leakage current | Initial specified value or less | | | |
| Moisture resistance load | Leave at 40 °C and 90 % to 95 % RH. The rated voltage applied for 500 h | Capacitance change | Within ± 10 % of initial value | | | |
| | | Dissipation factor | Shall not exceed 150 % of initial specified value | | | |
| | | Leakage current | Shall not exceed 200 % of initial specified value | | | |
| Failure rate | 85 °C. The rated voltage is applied through a protective resistor of 1 Ω/V. | 1 % / 1000 h | | | | |

Note

- Test conditions per JIS C5101-1



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- 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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.