

## 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<sub>DC</sub> to 35 V<sub>DC</sub>

### 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](http://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<br>0G = 4 V<br>0J = 6.3 V (7 V)<br>1A = 10 V<br>1C = 16 V<br>1D = 20 V<br>1E = 25 V<br>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 %<br>M = ± 20 % | TR = 7" reel, cathodes close to perforation side | Halogen-free (special order) | F = lead (Pb)-free terminations |

### DIMENSIONS in inches [millimeters]

Anode indication belt mark

UA, UB case

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



| RATINGS AND CASE CODES |         |         |             |         |         |         |      |         |
|------------------------|---------|---------|-------------|---------|---------|---------|------|---------|
| $\mu\text{F}$          | 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 <sup>(1)</sup>   A6 <sup>(2)</sup> | EA6  | VA6  |
| 1.5  |       |     |       |      | CE6                                    | DE6 <sup>(1)</sup>   E6 <sup>(2)</sup> | EE6  | VE6  |
| 2.2  |       |     |       |      | CJ6 <sup>(1)</sup>   J6 <sup>(2)</sup> | 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 (μF)  | CASE CODE | PART NUMBER      | MAX. DCL AT +25 °C (μA) | MAX. DF AT +25 °C, 120 Hz (%) | MAX. ESR AT +25 °C, 100 kHz (Ω) | MAX. RIPPLE, 100 kHz I <sub>RMS</sub> (A) |
| <b>2.5 V<sub>DC</sub> AT +85 °C; 1.6 V<sub>DC</sub> AT +125 °C</b>                  |           |                  |                         |                               |                                 |   |
| 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                                     |
| <b>4 V<sub>DC</sub> AT +85 °C; 2.5 V<sub>DC</sub> AT +125 °C</b>                    |           |                  |                         |                               |                                 |   |
| 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                                     |
| <b>6.3 V<sub>DC</sub> (7 V<sub>DC</sub>) AT +85 °C; 4 V<sub>DC</sub> AT +125 °C</b> |           |                  |                         |                               |                                 |   |
| 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                                     |
| <b>10 V<sub>DC</sub> AT +85 °C; 6.3 V<sub>DC</sub> AT +125 °C</b>                   |           |                  |                         |                               |                                 |   |
| 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                                     |
| <b>16 V<sub>DC</sub> AT +85 °C; 10 V<sub>DC</sub> AT +125 °C</b>                    |           |                  |                         |                               |                                 |   |
| 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<br>( $\mu$ F)  | CASE<br>CODE | PART NUMBER      | MAX. DCL<br>AT +25 °C<br>( $\mu$ A) | MAX. DF<br>AT +25 °C, 120 Hz<br>(%) | MAX. ESR<br>AT +25 °C, 100 kHz<br>( $\Omega$ ) | MAX. RIPPLE,<br>100 kHz I <sub>RMS</sub><br>(A) |
| <b>16 V<sub>DC</sub> AT +85 °C; 10 V<sub>DC</sub> AT +125 °C</b> |              |                  |                                     |                                     |  |   |
| 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   |
| <b>20 V<sub>DC</sub> AT +85 °C; 13 V<sub>DC</sub> AT +125 °C</b> |              |                  |                                     |                                     |  |   |
| 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   |
| <b>25 V<sub>DC</sub> AT +85 °C; 16 V<sub>DC</sub> AT +125 °C</b> |              |                  |                                     |                                     |  |   |
| 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   |
| <b>35 V<sub>DC</sub> AT +85 °C; 22 V<sub>DC</sub> AT +125 °C</b> |              |                  |                                     |                                     |  |   |
| 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<br>260 °C ± 5 °C, 10 s ± 1 s<br>Reflow<br>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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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- 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 оптимального решения, техническое обоснование при выборе компонента;
- 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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