

# Solid Tantalum Chip Capacitors TANTAMOUNT<sup>®</sup>, Hi-Rel COTS, Ultra-Low ESR, Conformal Coated Case



## FEATURES

- High reliability; Weibull failure rate grading available
- Surge current testing per MIL-PRF-55365 options available
- Ultra-low ESR
- Tin/lead (SnPb) termination available
- Mounting: Surface mount
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS\***  
COMPLIANT

## Note

- \* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

## PERFORMANCE CHARACTERISTICS

[www.vishay.com/doc?40088](http://www.vishay.com/doc?40088)

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

**Capacitance Range:** 10 µF to 1500 µF

**Capacitance Tolerance:** ± 10 %, ± 20 % standard

**Voltage Rating:** 4 V<sub>DC</sub> to 75 V<sub>DC</sub>

| ORDERING INFORMATION |                                 |  |                          |  |   |  |   |
|----------------------|---------------------------------|--|--------------------------|--|---|--|---|
| T97                  | R                               | 227  | K                        | 020  | E   | S  | A   |
| TYPE                 | CASE CODE                       | CAPACITANCE  | CAPACITANCE TOLERANCE    | DC VOLTAGE RATING AT + 85 °C   | TERMINATION/PACKAGING<br>(available options are series dependent)   | RELIABILITY LEVEL  | SURGE CURRENT   |
|                      | See Ratings and Case Code table | This is expressed in pF. The first two digits are the significant figures. The third is the number of zeros to follow. | K = ± 10 %<br>M = ± 20 % | This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V). | E = Sn/Pb solder/<br>7" (178 mm) reel<br>L = Sn/Pb solder/<br>7" (178 mm), 1/2 reel<br>C = 100 % tin/<br>7" (178 mm), reel<br>H = 100 % tin/<br>7" (178 mm), 1/2 reel | A = 1.0 % Weibull<br>B = 0.1 % Weibull <sup>(1)</sup><br>S = 40 h burn-in<br>Z = Non-established reliability | A = 10 cycles at + 25 °C<br>B = 10 cycles at - 55 °C/<br>+ 85 °C<br>S = 3 cycles at 25 °C |

## Notes

<sup>(1)</sup> Available on select ratings. See "Standard Ratings" table.

- We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Low ESR solid tantalum chip capacitors allow delta ESR of 1.25 times the datasheet limits after mounting.

| DIMENSIONS in inches [millimeters] |                |  |                              |                              |                              |                |                |
|------------------------------------|----------------|--|------------------------------|------------------------------|------------------------------|----------------|----------------|
|                                    |                |  |                              |                              |                              |                |                |
| CASE CODE                          | L (MAX.)       | W  | H                            | A                            | B                            | D (REF.)       | J (MAX.)       |
| V                                  | 0.299<br>[7.6] | 0.173 ± 0.016<br>[4.4 ± 0.4]               | 0.079<br>[2.0 max.]          | 0.051 ± 0.012<br>[1.3 ± 0.3] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.252<br>[6.4] | 0.004<br>[0.1] |
| D                                  | 0.299<br>[7.6] | 0.173 ± 0.016<br>[4.4 ± 0.4]               | 0.138<br>[3.5 max.]          | 0.051 ± 0.012<br>[1.3 ± 0.3] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.252<br>[6.4] | 0.004<br>[0.1] |
| E                                  | 0.299<br>[7.6] | 0.173 ± 0.016<br>[4.4 ± 0.4]               | 0.157 ± 0.016<br>[4.0 ± 0.4] | 0.051 ± 0.012<br>[1.3 ± 0.3] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.252<br>[6.4] | 0.004<br>[0.1] |
| R                                  | 0.299<br>[7.6] | 0.238 ± 0.016<br>[6.0 ± 0.4]               | 0.142 ± 0.016<br>[3.6 ± 0.4] | 0.051 ± 0.012<br>[1.3 ± 0.3] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.244<br>[6.2] | 0.004<br>[0.1] |
| F                                  | 0.299<br>[7.6] | 0.238 ± 0.016<br>[6.0 ± 0.4]               | 0.185 ± 0.016<br>[4.7 ± 0.4] | 0.055 ± 0.016<br>[1.4 ± 0.4] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.244<br>[6.2] | 0.004<br>[0.1] |
| Z                                  | 0.299<br>[7.6] | 0.238 ± 0.016<br>[6.0 ± 0.4]               | 0.236 ± 0.016<br>[6.0 ± 0.4] | 0.055 ± 0.016<br>[1.4 ± 0.4] | 0.181 ± 0.024<br>[4.6 ± 0.6] | 0.244<br>[6.2] | 0.004<br>[0.1] |
| M                                  | 0.315<br>[8.0] | 0.260 + 0.016/- 0.024<br>[6.6 + 0.4/- 0.6] | 0.142 ± 0.016<br>[3.6 ± 0.4] | 0.051 ± 0.012<br>[1.3 ± 0.3] | 0.197 ± 0.024<br>[5.0 ± 0.6] | 0.260<br>[6.6] | 0.004<br>[0.1] |
| H                                  | 0.315<br>[8.0] | 0.260 + 0.016/- 0.024<br>[6.6 + 0.4/- 0.6] | 0.205 ± 0.016<br>[5.2 ± 0.4] | 0.055 ± 0.016<br>[1.4 ± 0.4] | 0.197 ± 0.024<br>[5.0 ± 0.6] | 0.260<br>[6.6] | 0.004<br>[0.1] |
| N                                  | 0.315<br>[8.0] | 0.260 + 0.016/- 0.024<br>[6.6 + 0.4/- 0.6] | 0.252 ± 0.016<br>[6.4 ± 0.4] | 0.056 ± 0.017<br>[1.4 ± 0.4] | 0.196 ± 0.025<br>[5.0 ± 0.6] | 0.259<br>[6.6] | 0.004<br>[0.1] |

**Note**

- The anode termination (D less B) will be a minimum of 0.012" [0.3 mm]

| RATINGS AND CASE CODES |     |       |      |      |      |      |      |      |      |      |
|------------------------|-----|-------|------|------|------|------|------|------|------|------|
| μF                     | 4 V | 6.3 V | 10 V | 16 V | 20 V | 25 V | 35 V | 50 V | 63 V | 75 V |
| 10                     |     |       |      |      |      |      |      |      | D    | R    |
| 15                     |     |       |      |      |      |      |      | E/R  | R    |      |
| 22                     |     |       |      |      |      |      |      | R    | F    |      |
| 33                     |     |       |      |      |      |      |      | F    |      |      |
| 47                     |     |       |      |      |      |      | R    | Z/N  |      |      |
| 68                     |     |       |      |      |      | R    | F    |      |      |      |
| 100                    |     |       |      |      |      | F    | F    |      |      |      |
| 150                    |     |       |      |      |      | F    |      |      |      |      |
| 220                    |     |       |      | E    | R    | M    |      |      |      |      |
| 330                    |     | V     | E    | F    | H/F  |      |      |      |      |      |
| 470                    | V   | E     | E    | H    |      |      |      |      |      |      |
| 680                    | E   | E     | R    |      |      |      |      |      |      |      |
| 1000                   | E/R | R     | F    |      |      |      |      |      |      |      |
| 1500                   | R   |       |      |      |      |      |      |      |      |      |



| STANDARD RATINGS  |           |                        |                                      |  |  |   |                                    |
|---|-----------|------------------------|--------------------------------------|--|--|---|------------------------------------|
| CAPACITANCE<br>( $\mu$ F)   | CASE CODE | PART NUMBER            | MAX. DCL<br>AT + 25 °C<br>( $\mu$ A) | MAX. DF<br>AT + 25 °C<br>120 Hz<br>(%) | MAX. ESR<br>AT + 25 °C<br>100 kHz<br>(m $\Omega$ ) | MAX.<br>RIPPLE<br>100 kHz<br>I <sub>RMS</sub> (A) | AVAILABLE<br>RELIABILITY<br>LEVELS |
| <b>4 V<sub>DC</sub> AT + 85 °C; 2.7 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 470   | V         | T97V477(1)004(2)(4)(5) | 18.8                                 | 8                                      | 60   | 2.2   | A, B, S, Z                         |
| 680   | E         | T97E687(1)004(2)(4)(5) | 27.2                                 | 6                                      | 25   | 2.9   | A, B, S, Z                         |
| 1000  | E         | T97E108(1)004(2)(4)(5) | 40.0                                 | 8                                      | 20   | 3.3   | A, B, S, Z                         |
| 1000  | R         | T97R108(1)004(2)(4)(5) | 40.0                                 | 8                                      | 18   | 3.7   | A, B, S, Z                         |
| 1500  | R         | T97R158(1)004(2)(4)(5) | 60.0                                 | 8                                      | 24   | 2.9   | A, B, S, Z                         |
| <b>6.3 V<sub>DC</sub> AT + 85 °C; 4 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 330   | V         | T97V337(1)6R3(2)(4)(5) | 20.8                                 | 8                                      | 56   | 2.0   | A, B, S, Z                         |
| 470   | E         | T97E477(1)6R3(2)(4)(5) | 29.6                                 | 6                                      | 30   | 2.7   | A, B, S, Z                         |
| 680   | E         | T97E687(1)6R3(2)(4)(5) | 42.8                                 | 6                                      | 25   | 2.9   | A, B, S, Z                         |
| 1000  | R         | T97R108(1)6R3(2)(4)(5) | 63.0                                 | 8                                      | 31   | 2.8   | A, B, S, Z                         |
| <b>10 V<sub>DC</sub> AT + 85 °C; 7 WV<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 330   | E         | T97E337(1)010(2)(4)(5) | 33.0                                 | 6                                      | 35   | 2.5   | A, B, S, Z                         |
| 470   | E         | T97E477(1)010(2)(4)(5) | 47.0                                 | 6                                      | 28   | 2.8   | A, B, S, Z                         |
| 680   | R         | T97R687(1)010(2)(6)(5) | 68.0                                 | 6                                      | 28   | 3.0   | S, Z                               |
| 1000  | F         | T97F108(1)010(2)(3)(5) | 100.0                                | 20                                     | 120  | 1.4   | A, S, Z                            |
| <b>16 WV<sub>DC</sub> AT + 85 °C; 10 V<sub>DC</sub> AT + 125 °C</b> |           |                        |                                      |  |  |   |                                    |
| 220   | E         | T97E227(1)016(2)(4)(5) | 35.2                                 | 8                                      | 60   | 2.3   | A, B, S, Z                         |
| 330   | F         | T97F337(1)016(2)(4)(5) | 52.8                                 | 10                                     | 100  | 1.6   | A, B, S, Z                         |
| 470   | H         | T97H477(1)016(2)(4)(5) | 75.2                                 | 14                                     | 100  | 1.4   | A, B, S, Z                         |
| <b>20 V<sub>DC</sub> AT + 85 °C; 13 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 220   | R         | T97R227(1)020(2)(4)(5) | 44.0                                 | 8                                      | 80   | 1.8   | A, B, S, Z                         |
| 330   | F         | T97F337(1)020(2)(6)(5) | 66.0                                 | 10                                     | 100  | 1.6   | S, Z                               |
| 330   | H         | T97H337(1)020(2)(4)(5) | 66.0                                 | 10                                     | 100  | 1.6   | A, B, S, Z                         |
| <b>25 V<sub>DC</sub> AT + 85 °C; 17 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 68  | R         | T97R686(1)025(2)(4)(5) | 17.0                                 | 6                                      | 100  | 1.6   | A, B, S, Z                         |
| 100   | F         | T97F107(1)025(2)(4)(5) | 25.0                                 | 8                                      | 100  | 1.6   | A, B, S, Z                         |
| <b>25 V<sub>DC</sub> AT + 85 °C; 17 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 150   | F         | T97F157(1)025(2)(4)(5) | 37.5                                 | 8                                      | 80   | 1.8   | A, B, S, Z                         |
| 220   | M         | T97M227(1)025(2)(3)(5) | 55.0                                 | 8                                      | 100  | 1.6   | A, S, Z                            |
| <b>35 V<sub>DC</sub> AT + 85 °C; 23 V<sub>DC</sub> AT + 125 °C</b>  |           |                        |                                      |  |  |   |                                    |
| 47  | R         | T97R476(1)035(2)(4)(5) | 16.5                                 | 6                                      | 100  | 1.6   | A, B, S, Z                         |
| 68  | F         | T97F686(1)035(2)(3)(5) | 23.8                                 | 6                                      | 100  | 1.6   | A, S, Z                            |
| 100   | F         | T97F107M035(2)(3)(5)   | 35.0                                 | 8                                      | 100  | 1.6   | A, S, Z                            |

**Note**

- Part number definitions:
  - Capacitance tolerance: K, M
  - Termination and packaging: C, E, H, L
  - Reliability level: A, S, Z
  - Reliability level: A, B, S, Z
  - Surge current: A, B, S
  - Reliability level: S, Z



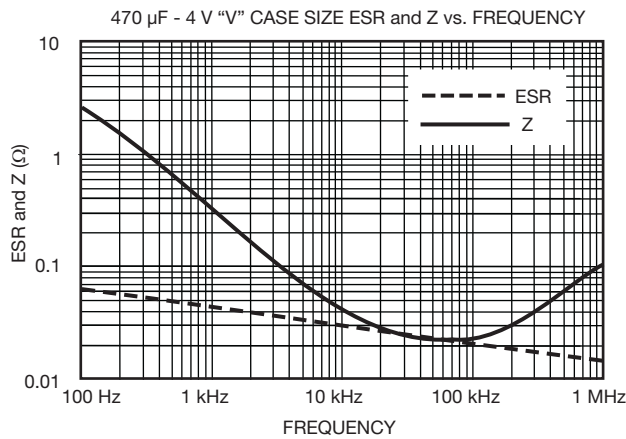
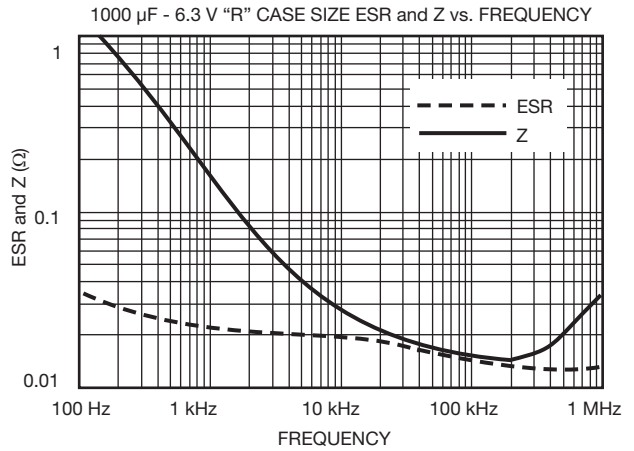
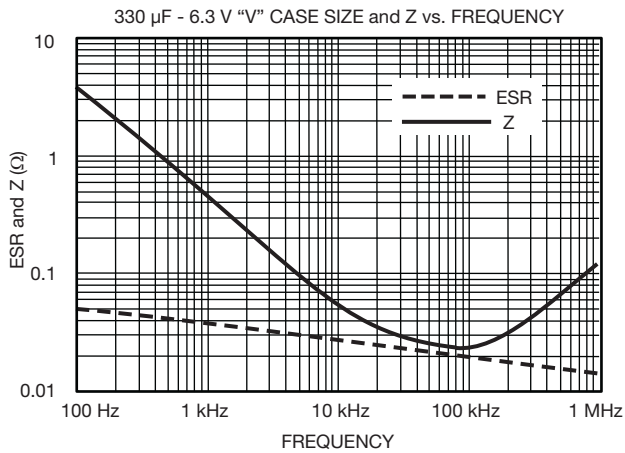
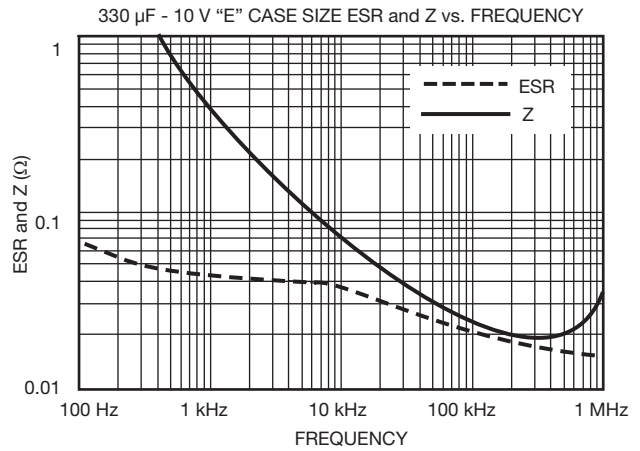
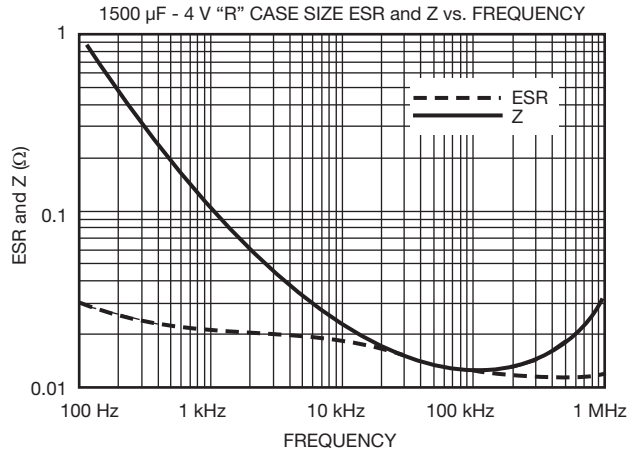
| STANDARD RATINGS   |           |                        |                                      |  |  |   |                                    |  |
|--|-----------|------------------------|--------------------------------------|--|--|---|------------------------------------|--|
| CAPACITANCE<br>( $\mu$ F)  | CASE CODE | PART NUMBER            | MAX. DCL<br>AT + 25 °C<br>( $\mu$ A) | MAX. DF<br>AT + 25 °C<br>120 Hz<br>(%) | MAX. ESR<br>AT + 25 °C<br>100 kHz<br>(m $\Omega$ ) | MAX.<br>RIPPLE<br>100 kHz<br>I <sub>RMS</sub> (A) | AVAILABLE<br>RELIABILITY<br>LEVELS |  |
| <b>50 V<sub>DC</sub> AT + 85 °C; 33 V<sub>DC</sub> AT + 125 °C</b> |           |                        |                                      |  |  |   |                                    |  |
| 15   | E         | T97E156(1)050(2)(4)(5) | 7.5                                  | 6                                      | 350  | 0.9   | A, B, S, Z                         |  |
| 15   | R         | T97R156(1)050(2)(4)(5) | 7.5                                  | 6                                      | 250  | 1.0   | A, B, S, Z                         |  |
| 22   | R         | T97R226(1)050(2)(4)(5) | 11.0                                 | 6                                      | 220  | 1.1   | A, B, S, Z                         |  |
| 33   | F         | T97F336(1)050(2)(3)(5) | 16.5                                 | 6                                      | 150  | 1.3   | A, S, Z                            |  |
| 47   | Z         | T97Z476(1)050(2)(6)(5) | 23.5                                 | 6                                      | 240  | 1.1   | S, Z                               |  |
| 47   | N         | T97N476(1)050(2)(4)(5) | 23.5                                 | 6                                      | 150  | 1.4   | A, B, S, Z                         |  |
| <b>63 V<sub>DC</sub> AT + 85 °C; 42 V<sub>DC</sub> AT + 125 °C</b> |           |                        |                                      |  |  |   |                                    |  |
| 10   | D         | T97D106(1)063(2)(3)(5) | 10.0                                 | 6                                      | 400  | 0.6   | A, S, Z                            |  |
| 15   | R         | T97R156(1)063(2)(3)(5) | 9.5                                  | 6                                      | 400  | 0.8   | A, S, Z                            |  |
| 22   | F         | T97F226(1)063(2)(3)(5) | 13.9                                 | 6                                      | 250  | 1.0   | A, S, Z                            |  |
| <b>75 V<sub>DC</sub> AT + 85 °C; 50 V<sub>DC</sub> AT + 125 °C</b> |           |                        |                                      |  |  |   |                                    |  |
| 10   | R         | T97R106(1)075(2)(6)(5) | 7.5                                  | 6                                      | 500  | 0.7   | S, Z                               |  |

**Note**

- Part number definitions:
  - (1) Capacitance tolerance: K, M
  - (2) Termination and packaging: C, E, H, L
  - (3) Reliability level: A, S, Z
  - (4) Reliability level: A, B, S, Z
  - (5) Surge current: A, B, S
  - (6) Reliability level: S, Z

| RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperatures below + 85 °C) |                   |
|--|-------------------|
| STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS                         |                   |
| Capacitor Voltage Rating   | Operating Voltage |
| 4.0  | 2.5               |
| 6.3  | 3.6               |
| 10   | 6.0               |
| 16   | 10                |
| 20   | 12                |
| 25   | 15                |
| 35   | 24                |
| 50   | 28                |
| 63   | 37.8              |
| 75   | 45                |
| SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS                            |                   |
| Capacitor Voltage Rating   | Operating Voltage |
| 4.0  | 2.5               |
| 6.3  | 3.3               |
| 10   | 5.0               |
| 16   | 8.0               |
| 20   | 10                |
| 25   | 12                |
| 35   | 15                |
| 50   | 24                |
| 63   | 32                |
| 75   | 37                |

**TYPICAL CURVES**





| POWER DISSIPATION |  |
|-------------------|--|
| CASE CODE         | MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR |
| V                 | 0.141  |
| D                 | 0.215  |
| E                 | 0.240  |
| R, F, M           | 0.250  |
| Z                 | 0.265  |
| H                 | 0.265  |
| N                 | 0.280  |

| STANDARD PACKAGING QUANTITY |                |              |
|-----------------------------|----------------|--------------|
| CASE CODE                   | UNITS PER REEL |              |
|                             | 7" FULL REEL   | 7" HALF REEL |
| V                           | 1000           | 500          |
| D                           | 400            | 200          |
| E                           | 500            | 250          |
| R                           | 300            | 150          |
| F                           | 250            | 125          |
| Z                           | 250            | 125          |
| M                           | 200            | 100          |
| H                           | 200            | 100          |
| N                           | 200            | 100          |

| PRODUCT INFORMATION            |  |
|--------------------------------|--|
| Conformal Coated Guide         | <a href="http://www.vishay.com/doc?40150">www.vishay.com/doc?40150</a> |
| Moisture Sensitivity           | <a href="http://www.vishay.com/doc?40135">www.vishay.com/doc?40135</a> |
| SELECTOR GUIDES                |  |
| Solid Tantalum Selector Guide  | <a href="http://www.vishay.com/doc?49053">www.vishay.com/doc?49053</a> |
| Solid Tantalum Chip Capacitors | <a href="http://www.vishay.com/doc?40091">www.vishay.com/doc?40091</a> |
| FAQ                            |  |
| Frequently Asked Questions     | <a href="http://www.vishay.com/doc?40110">www.vishay.com/doc?40110</a> |



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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.**



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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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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