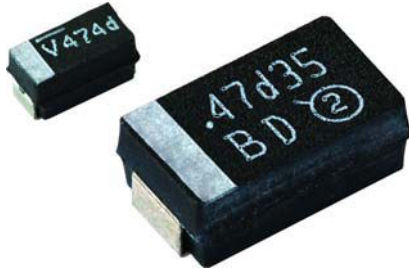


## Solid Tantalum Surface Mount, TANTAMOUNT<sup>®</sup>, Molded Case, Very Low DCL



### FEATURES

- Terminations: 100 % matte tin and tin/lead
- Molded case available in five case codes
- Compatible with “High Volume” automatic pick and place equipment
- 100 % surge current tested (B, C, D and E case sizes)
- Improved reliability: 0.50 %/1000 h, 85 °C, rated voltage
- Standard EIA 535BAAC case size (A through E)
- DC leakage at 0.005 CV
- Low ESR options
- Mounting: Surface mount
- Compliant to RoHS Directive 2011/65/EU
- Halogen-free according to IEC 61249-2-21 definition
- Moisture sensitivity level 1


**RoHS\***  
COMPLIANT

 HALOGEN  
**FREE**  
Available

### Note

\* Pb containing terminations are not RoHS compliant, exemptions may apply

### PERFORMANCE/ELECTRICAL 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:** 0.1 μF to 470 μF

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

**Voltage Rating:** 4 V to 50 V

TL3	D	107	K	010	C	0100
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND PACKAGING	ESR
	See Ratings and Case Codes table.	This is expressed in picofarads. The first two digits are significant figures. The third is the number of zeros to follow.	K = ± 10 % 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).	C = Matte tin/7" (178 mm) reels D = Matte tin/13" (330 mm) reels E = Tin/lead/7" (178 mm) reels F = Tin/lead/13" (330 mm) reels	Maximum 100 kHz ESR in mΩ. See note below.

### Notes

- We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating.
- The EIA and CECC standards for low ESR solid tantalum chip capacitors, allow delta ESR of 1.25 times the datasheet limit after mounting.
- Dry pack is available per request, contact regional marketing.

DIMENSIONS in inches [millimeters]							
CASE CODE	EIA SIZE	L	W	H	P	T <sub>w</sub>	T <sub>H</sub> (MIN.)
A	3216-18	0.126 ± 0.008 [3.2 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.047 ± 0.004 [1.2 ± 0.10]	0.028 [0.70]
B	3528-21	0.138 ± 0.008 [3.5 ± 0.20]	0.110 ± 0.008 [2.8 ± 0.20]	0.075 ± 0.008 [1.9 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.028 [0.70]
C	6032-28	0.236 ± 0.012 [6.0 ± 0.30]	0.126 ± 0.012 [3.2 ± 0.30]	0.098 ± 0.012 [2.5 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.039 [1.0]
D	7343-31	0.287 ± 0.012 [7.3 ± 0.30]	0.169 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]
E	7343-43	0.287 ± 0.012 [7.3 ± 0.30]	0.169 ± 0.012 [4.3 ± 0.30]	0.157 ± 0.012 [4.0 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]



RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
0.10							A (20.00, 10.00)	A (19.00, 10.00)
0.15							A (18.00, 6.00)	A (17.00, 10.00)/ B (14.00, 9.00)
0.22							A (15.00, 6.00)	B (12.00, 8.50)
0.33						A (14.00, 10.00)	A (13.00, 6.00)	B (10.00, 4.50)
0.47					A (12.00, 9.00)	A (12.00, 9.00)	A (10.00, 4.00)/ B (8.00, 2.50)	B (8.40, 4.00)/ C (6.70, 1.80)
0.68				A (11.00, 8.00)	A (10.00, 8.00)	B (7.00, 5.00)	B (6.50, 2.50)	C (5.90, 1.60)
1.0			A (9.30, 6.00)	A (9.30, 6.00)	A (8.40, 5.50)	A (7.60, 4.00)/ B (5.00, 2.00)	A (7.50, 6.00)/ B (5.00, 2.00)	B (6.70, 2.00)/ C (4.60, 1.60)
1.5		A (8.00, 6.00)	A (8.00, 6.00)	A (8.00, 6.00)	B (4.60, 2.50)	B (4.60, 2.00)	B (4.20, 3.00)/ C (3.80, 1.50)	C (3.40, 1.50)/ D (2.90, 1.00)
2.2	A (7.60, 6.00)	A (7.60, 6.00)		B (4.60, 2.50)	A (5.90, 4.00)/ B (3.50, 1.50)	A (6.30, 4.00)/ B (3.80, 2.30)/ C (2.90, 1.00)	B (3.80, 2.30)/ C (2.90, 0.90)	C (2.90, 1.50)/ D (2.10, 0.80)
3.3	A (7.60, 4.00)	A (6.30, 5.00)	B (3.50, 2.50)	B (3.50, 2.00)	B (3.00, 1.30)	B (3.10, 1.50)/ C (2.30, 1.00)	B (3.50, 1.50)/ C (2.10, 0.70)	D (1.70, 0.80)
4.7	A (6.30, 3.50)	A (5.50, 3.50)/ B (3.40, 1.80)	A (5.00, 3.00)/ B (3.40, 1.50)	A (3.50, 2.50)/ B (2.90, 1.50)	A (5.50, 3.50)/ B (2.90, 1.00)/ C (2.30, 0.60)	B (2.80, 1.50)/ C (2.0, 0.525)	C (1.90, 0.60)/ D (1.30, 0.60)	D (1.20, 0.60)
6.8	B (4.50, 2.00)	B (3.40, 1.20)	B (2.90, 1.20)	C (1.90, 0.60)	C (1.90, 0.55)	C (1.70, 0.50)/ D (1.20, 0.35)	C (1.80, 0.900)/ D (1.10, 0.30)	E (0.90, 0.54)
10	B (3.50, 1.20)	B (2.90, 1.00)	A (3.40, 2.00)/ C (1.80, 0.55)	A (3.00, 1.70)/ B (2.80, 0.80)/ C (1.80, 0.45)	B (2.50, 1.00)/ C (1.70, 0.45)	B (2.30, 1.30)/ C (1.50, 0.45)/ D (1.00, 0.30)	C (1.60, 0.85)/ D (0.80, 0.30)	E (0.80, 0.55)
15	B (2.90, 1.20)	C (1.80, 0.60)	A (2.90, 2.00)/ C (1.80, 0.50)	B (2.00, 0.80)	D (0.90, 0.30)	C (1.20, 0.425)/ D (0.80, 0.25)	D (0.80, 0.30)	
22		A (2.90, 2.00)/ C (1.80, 0.60)	A (2.50, 1.50)	B (1.90, 1.00)/ D (0.80, 0.25)	C (1.20, 0.375)/ D (0.70, 0.225)	D (0.70, 0.20)	D (0.70, 0.40)/ E (0.60, 0.300)	
33	A (2.90, 1.50)/ C (1.80, 0.50)	B (1.90, 0.60)/ C (1.50, 0.40)	B (1.90, 0.60)/ C (1.40, 0.35)/ D (0.80, 0.25)	B (1.80, 0.50)/ C (1.10, 0.30)/ D (0.70, 0.225)	D (0.70, 0.20)	D (0.70, 0.30)/ E (0.60, 0.20)		
47	B (2.50, 0.60)/ C (1.80, 0.40)	B (2.00, 0.55)/ C (1.40, 0.30)/ D (0.80, 0.20)	B (1.80, 0.60)/ C (1.10, 0.30)/ D (0.70, 0.20)	C (1.00, 0.30)/ D (0.70, 0.15)	D (0.70, 0.20)/ E (0.60, 0.15)	D (0.70, 0.35)/ E (0.60, 0.30)		
68	D (0.80, 0.175)	D (0.70, 0.20)	D (0.70, 0.15)	D (0.60, 0.15)	D (0.70, 0.175)/ E (0.60, 0.15)			
100	B (1.80, 0.45)/ D (0.70, 0.175)	B (1.70, 0.70)/ D (0.70, 0.14)	C (0.90, 0.20)/ D (0.60, 0.10)	D (0.60, 0.125)/ E (0.60, 0.10)	E (0.50, 0.15)			
150	D (0.60, 0.15)	D (0.60, 0.125)/ E (0.50, 0.10)	D (0.60, 0.10)	E (0.50, 0.15)				
220		C (0.70, 0.30)/ D (0.60, 0.10)/ E (0.50, 0.10)	D (0.60, 0.36)/ E (0.50, 0.10)					
330	E (0.50, 0.10)	E (0.50, 0.10)	E (0.50, 0.10)					
470			E (0.50, 0.20)					

MARKING		
<p><b>A Case</b></p>	<b>“A” CASE VOLTAGE CODE</b>	
	<b>VOLTS</b>	<b>CODE</b>
	4.0	G
	6.3	J
	10	A
	16	C
	20	D
25	E	
35	V	
50	T	
	<p><b>B, C, D, E Cases</b></p>	
<b>Marking</b> Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating. “A” case capacitors use a letter code for the voltage and EIA capacitance code. The Vishay Sprague® trademark is included if space permits. Capacitors rated at 6.3 V are marked 6 V. A manufacturing date code is marked on all capacitors. Call the factory for further explanation.		

STANDARD RATINGS							
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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>4 V<sub>DC</sub> AT + 85 °C; 2.7 V<sub>DC</sub> AT + 125 °C</b>							
2.2	A	TL3A225(1)004(2)7600	0.25	6	7.600	0.10	
2.2	A	TL3A225(1)004(2)6000	0.25	6	6.000	0.11	
3.3	A	TL3A335(1)004(2)7600	0.25	6	7.600	0.10	
3.3	A	TL3A335(1)004(2)4000	0.25	6	4.000	0.14	
4.7	A	TL3A475(1)004(2)6300	0.25	6	6.300	0.11	
4.7	A	TL3A475(1)004(2)3500	0.25	6	3.500	0.15	
6.8	B	TL3B685(1)004(2)4500	0.25	6	4.500	0.14	
6.8	B	TL3B685(1)004(2)2000	0.25	6	2.000	0.20	
10	B	TL3B106(1)004(2)3500	0.25	6	3.500	0.16	
10	B	TL3B106(1)004(2)1200	0.25	6	1.200	0.27	
15	B	TL3B156(1)004(2)2900	0.30	6	2.900	0.17	
15	B	TL3B156(1)004(2)1200	0.30	6	1.200	0.27	
33	A	TL3A336(1)004(2)2900	0.66	6	2.900	0.16	
33	A	TL3A336(1)004(2)1500	0.66	6	1.500	0.22	
33	C	TL3C336(1)004(2)1800	0.66	6	1.800	0.25	
33	C	TL3C336(1)004(2)0500	0.66	6	0.500	0.47	
47	B	TL3B476(1)004(2)2500	0.94	6	2.500	0.18	
47	B	TL3B476(1)004(2)0600	0.94	6	0.600	0.38	
47	C	TL3C476(1)004(2)1800	0.94	6	1.800	0.25	
47	C	TL3C476(1)004(2)0400	0.94	6	0.400	0.52	
68	D	TL3D686(1)004(2)0800	1.36	6	0.800	0.43	
68	D	TL3D686(1)004(2)0175	1.36	6	0.175	0.93	
100	B	TL3B107(1)004(2)1800	2.00	6	1.800	0.22	
100	B	TL3B107(1)004(2)0450	2.00	6	0.450	0.43	
100	D	TL3D107(1)004(2)0700	2.00	6	0.700	0.46	
100	D	TL3D107(1)004(2)0175	2.00	6	0.175	0.93	
150	D	TL3D157(1)004(2)0600	3.00	8	0.600	0.50	
150	D	TL3D157(1)004(2)0150	3.00	8	0.150	1.00	
330	E	TL3E337(1)004(2)0500	6.60	8	0.500	0.57	
330	E	TL3E337(1)004(2)0100	6.60	8	0.100	1.28	

**Note**

- Part number definitions:
  - Capacitance tolerance: K, M
  - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>6 V<sub>DC</sub> AT + 85 °C; 4 V<sub>DC</sub> AT + 125 °C</b>						
1.5	A	TL3A155(1)6R3(2)8000	0.25	6	8.000	0.10
1.5	A	TL3A155(1)6R3(2)6000	0.25	6	6.000	0.11
2.2	A	TL3A225(1)6R3(2)7600	0.25	6	7.600	0.10
2.2	A	TL3A225(1)6R3(2)6000	0.25	6	6.000	0.11
3.3	A	TL3A335(1)6R3(2)6300	0.25	6	6.300	0.11
3.3	A	TL3A335(1)6R3(2)5000	0.25	6	5.000	0.12
4.7	A	TL3A475(1)6R3(2)5500	0.25	6	5.500	0.12
4.7	A	TL3A475(1)6R3(2)3500	0.25	6	3.500	0.15
4.7	B	TL3B475(1)6R3(2)3400	0.25	6	3.400	0.16
4.7	B	TL3B475(1)6R3(2)1800	0.25	6	1.800	0.22
6.8	B	TL3B685(1)6R3(2)3400	0.25	6	3.400	0.16
6.8	B	TL3B685(1)6R3(2)1200	0.25	6	1.200	0.27
10	B	TL3B106(1)6R3(2)2900	0.30	6	2.900	0.17
10	B	TL3B106(1)6R3(2)1000	0.3	6	1.000	0.29
15	C	TL3C156(1)6R3(2)1800	0.45	6	1.800	0.25
15	C	TL3C156(1)6R3(2)0600	0.45	6	0.600	0.43
22	A	TL3A226(1)6R3(2)2900	0.66	6	2.900	0.16
22	A	TL3A226(1)6R3(2)2000	0.66	6	2.000	0.19
22	C	TL3C226(1)6R3(2)1800	0.66	6	1.800	0.25
22	C	TL3C226(1)6R3(2)0600	0.66	6	0.600	0.43
33	B	TL3B336(1)6R3(2)1900	0.99	6	1.900	0.21
33	B	TL3B336(1)6R3(2)0600	0.99	6	0.600	0.38
33	C	TL3C336(1)6R3(2)1500	0.99	6	1.500	0.27
33	C	TL3C336(1)6R3(2)0400	0.99	6	0.400	0.52
47	B	TL3B476(1)6R3(2)2000	1.41	6	2.000	0.21
47	B	TL3B476(1)6R3(2)0550	1.41	6	0.550	0.39
47	C	TL3C476(1)6R3(2)1400	1.41	6	1.400	0.28
47	C	TL3C476(1)6R3(2)0300	1.41	6	0.300	0.61
47	D	TL3D476(1)6R3(2)0800	1.41	6	0.800	0.43
47	D	TL3D476(1)6R3(2)0200	1.41	6	0.200	0.87
68	D	TL3D686(1)6R3(2)0700	2.04	6	0.700	0.46
68	D	TL3D686(1)6R3(2)0200	2.04	6	0.200	0.87
100	B	TL3B107(1)6R3(2)1700	3.00	15	1.700	0.22
100	B	TL3B107(1)6R3(2)0700	3.00	15	0.700	0.35
100	D	TL3D107(1)6R3(2)0700	3.00	6	0.700	0.46
100	D	TL3D107(1)6R3(2)0140	3.00	6	0.140	1.04
150	D	TL3D157(1)6R3(2)0600	4.50	8	0.600	0.50
150	D	TL3D157(1)6R3(2)0125	4.50	8	0.125	1.10
150	E	TL3E157(1)6R3(2)0500	4.50	8	0.500	0.57
150	E	TL3E157(1)6R3(2)0100	4.50	8	0.100	1.28
220	C	TL3C227(1)6R3(2)0700	6.60	14	0.700	0.40
220	C	TL3C227(1)6R3(2)0300	6.60	14	0.300	0.61
220	D	TL3D227(1)6R3(2)0600	6.60	8	0.600	0.50
220	D	TL3D227(1)6R3(2)0100	6.60	8	0.100	1.22
220	E	TL3E227(1)6R3(2)0500	6.60	8	0.500	0.57
220	E	TL3E227(1)6R3(2)0100	6.60	8	0.100	1.28
330	E	TL3E337(1)6R3(2)0500	9.90	8	0.500	0.57
330	E	TL3E337(1)6R3(2)0100	9.90	8	0.100	1.28

**Note**

- Part number definitions:
  - (1) Capacitance tolerance: K, M
  - (2) Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>10 V<sub>DC</sub> AT + 85 °C; 7 V<sub>DC</sub> AT + 125 °C</b>						
1.0	A	TL3A105(1)010(2)9300	0.25	4	9.300	0.09
1.0	A	TL3A105(1)010(2)6000	0.25	4	6.000	0.11
1.5	A	TL3A155(1)010(2)8000	0.25	6	8.000	0.10
1.5	A	TL3A155(1)010(2)6000	0.25	6	6.000	0.11
3.3	B	TL3B335(1)010(2)3500	0.25	6	3.500	0.16
3.3	B	TL3B335(1)010(2)2500	0.25	6	2.500	0.18
4.7	A	TL3A475(1)010(2)5000	0.25	6	5.000	0.12
4.7	A	TL3A475(1)010(2)3000	0.25	6	3.000	0.16
4.7	B	TL3B475(1)010(2)3400	0.25	6	3.400	0.16
4.7	B	TL3B475(1)010(2)1500	0.25	6	1.500	0.24
6.8	B	TL3B685(1)010(2)2900	0.34	6	2.900	0.17
6.8	B	TL3B685(1)010(2)1200	0.34	6	1.200	0.27
10	A	TL3A106(1)010(2)3400	0.50	6	3.400	0.15
10	A	TL3A106(1)010(2)2000	0.50	6	2.000	0.19
10	C	TL3C106(1)010(2)1800	0.50	6	1.800	0.25
10	C	TL3C106(1)010(2)0550	0.50	6	0.550	0.45
15	A	TL3A156(1)010(2)2900	0.75	6	2.900	0.16
15	A	TL3A156(1)010(2)2000	0.75	6	2.000	0.19
15	C	TL3C156(1)010(2)1800	0.75	6	1.800	0.25
15	C	TL3C156(1)010(2)0500	0.75	6	0.500	0.47
22	A	TL3A226(1)010(2)2500	1.10	8	2.500	0.17
22	A	TL3A226(1)010(2)1500	1.10	8	1.500	0.22
33	B	TL3B336(1)010(2)1900	1.65	6	1.900	0.21
33	B	TL3B336(1)010(2)0600	1.65	6	0.600	0.38
33	C	TL3C336(1)010(2)1400	1.65	6	1.400	0.28
33	C	TL3C336(1)010(2)0350	1.65	6	0.350	0.56
33	D	TL3D336(1)010(2)0800	1.65	6	0.800	0.43
33	D	TL3D336(1)010(2)0250	1.65	6	0.250	0.77
47	B	TL3B476(1)010(2)1800	2.35	6	1.800	0.22
47	B	TL3B476(1)010(2)0600	2.35	6	0.600	0.38
47	C	TL3C476(1)010(2)1100	2.35	6	1.100	0.32
47	C	TL3C476(1)010(2)0300	2.35	6	0.300	0.61
47	D	TL3D476(1)010(2)0700	2.35	6	0.700	0.46
47	D	TL3D476(1)010(2)0200	2.35	6	0.200	0.87
68	D	TL3D686(1)010(2)0700	3.40	6	0.700	0.46
68	D	TL3D686(1)010(2)0150	3.40	6	0.150	1.00
100	C	TL3C107(1)010(2)0900	5.00	8	0.900	0.35
100	C	TL3C107(1)010(2)0200	5.00	8	0.200	0.74
100	D	TL3D107(1)010(2)0600	5.00	8	0.600	0.50
100	D	TL3D107(1)010(2)0100	5.00	8	0.100	1.22
150	D	TL3D157(1)010(2)0600	7.50	8	0.600	0.50
150	D	TL3D157(1)010(2)0100	7.50	8	0.100	1.22
220	D	TL3D227(1)010(2)0600	11.00	8	0.600	0.50
220	D	TL3D227(1)010(2)0360	11.00	8	0.360	0.65
220	E	TL3E227(1)010(2)0500	11.00	8	0.500	0.57
220	E	TL3E227(1)010(2)0100	11.00	8	0.100	1.28
330	E	TL3E337(1)010(2)0500	16.50	10	0.500	0.57
330	E	TL3E337(1)010(2)0100	16.50	10	0.100	1.28
470	E	TL3E477(1)010(2)0500	23.50	15	0.500	0.57
470	E	TL3E477(1)010(2)0200	23.50	15	0.200	0.91

Note

- Part number definitions:
  - (1) Capacitance tolerance: K, M
  - (2) Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>16 V<sub>DC</sub> AT + 85 °C; 10 V<sub>DC</sub> AT + 125 °C</b>						
0.68	A	TL3A684(1)016(2)11R0	0.25	4	11.000	0.08
0.68	A	TL3A684(1)016(2)8000	0.25	4	8.000	0.10
1.0	A	TL3A105(1)016(2)9300	0.25	4	9.300	0.09
1.0	A	TL3A105(1)016(2)6000	0.25	4	6.000	0.11
1.5	A	TL3A155(1)016(2)8000	0.25	6	8.000	0.10
1.5	A	TL3A155(1)016(2)6000	0.25	6	6.000	0.11
2.2	B	TL3B225(1)016(2)4600	0.25	6	4.600	0.14
2.2	B	TL3B225(1)016(2)2500	0.25	6	2.500	0.18
3.3	B	TL3B335(1)016(2)3500	0.26	6	3.500	0.16
3.3	B	TL3B335(1)016(2)2000	0.26	6	2.000	0.21
4.7	A	TL3A475(1)016(2)5000	0.38	6	5.000	0.12
4.7	A	TL3A475(1)016(2)3500	0.38	6	3.500	0.15
4.7	B	TL3B475(1)016(2)2900	0.38	6	2.900	0.17
4.7	B	TL3B475(1)016(2)1500	0.38	6	1.500	0.24
6.8	C	TL3C685(1)016(2)1900	0.54	6	1.900	0.24
6.8	C	TL3C685(1)016(2)0600	0.54	6	0.600	0.43
10	A	TL3A106(1)016(2)3000	0.80	6	3.000	0.16
10	A	TL3A106(1)016(2)1700	0.80	6	1.700	0.21
10	B	TL3B106(1)016(2)2800	0.80	6	2.800	0.17
10	B	TL3B106(1)016(2)0800	0.80	6	0.800	0.33
10	C	TL3C106(1)016(2)1800	0.80	6	1.800	0.25
10	C	TL3C106(1)016(2)0450	0.80	6	0.450	0.49
15	B	TL3B156(1)016(2)2000	1.20	6	2.000	0.21
15	B	TL3B156(1)016(2)0800	1.20	6	0.800	0.33
22	B	TL3B226(1)016(2)1900	1.76	6	1.900	0.21
22	B	TL3B226(1)016(2)1000	1.76	6	1.000	0.29
22	D	TL3D226(1)016(2)0800	1.76	6	0.800	0.43
22	D	TL3D226(1)016(2)0250	1.76	6	0.250	0.77
33	B	TL3B336(1)016(2)1800	2.64	6	1.800	0.22
33	B	TL3B336(1)016(2)0500	2.64	6	0.500	0.41
33	C	TL3C336(1)016(2)1100	2.64	6	1.100	1.05
33	C	TL3C336(1)016(2)0300	2.64	6	0.300	0.61
33	D	TL3D336(1)016(2)0700	2.64	6	0.700	0.46
33	D	TL3D336(1)016(2)0225	2.64	6	0.225	0.82
47	C	TL3C476(1)016(2)1000	3.76	6	1.000	0.33
47	C	TL3C476(1)016(2)0300	3.76	6	0.300	0.61
47	D	TL3D476(1)016(2)0700	3.76	6	0.700	0.46
47	D	TL3D476(1)016(2)0150	3.76	6	0.150	1.00
68	D	TL3D686(1)016(2)0600	5.44	6	0.600	0.50
68	D	TL3D686(1)016(2)0150	5.44	6	0.150	1.00
100	D	TL3D107(1)016(2)0600	8.00	8	0.600	0.50
100	D	TL3D107(1)016(2)0125	8.00	8	0.125	1.10
100	E	TL3E107(1)016(2)0600	8.00	8	0.600	0.52
100	E	TL3E107(1)016(2)0100	8.00	8	0.100	1.28
150	E	TL3E157(1)016(2)0500	12.00	8	0.500	0.57
150	E	TL3E157(1)016(2)0150	12.00	8	0.150	1.28

**Note**

- Part number definitions:
  - Capacitance tolerance: K, M
  - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>20 V<sub>DC</sub> AT + 85 °C; 13 V<sub>DC</sub> AT + 125 °C</b>						
0.47	A	TL3A474(1)020(2)12R0	0.25	4	12.000	0.08
0.47	A	TL3A474(1)020(2)9000	0.25	4	9.000	0.09
0.68	A	TL3A684(1)020(2)10R0	0.25	4	10.000	0.09
0.68	A	TL3A684(1)020(2)8000	0.25	4	8.000	0.10
1.0	A	TL3A105(1)020(2)8400	0.25	4	8.400	0.09
1.0	A	TL3A105(1)020(2)5500	0.25	4	5.500	0.12
1.5	B	TL3B155(1)020(2)4600	0.25	6	4.600	0.14
1.5	B	TL3B155(1)020(2)2500	0.25	6	2.500	0.18
2.2	A	TL3A225(1)020(2)5900	0.25	6	5.900	0.11
2.2	A	TL3A225(1)020(2)4000	0.25	6	4.000	0.14
2.2	B	TL3B225(1)020(2)3500	0.25	6	3.500	0.16
2.2	B	TL3B225(1)020(2)1500	0.25	6	1.500	0.24
3.3	B	TL3B335(1)020(2)3000	0.33	6	3.000	0.17
3.3	B	TL3B335(1)020(2)1300	0.33	6	1.300	0.26
4.7	A	TL3A475(1)020(2)5500	0.47	6	5.500	0.12
4.7	A	TL3A475(1)020(2)3500	0.47	6	3.500	0.15
4.7	B	TL3B475(1)020(2)2900	0.47	6	2.900	0.17
4.7	B	TL3B475(1)020(2)1000	0.47	6	1.000	0.29
4.7	C	TL3C475(1)020(2)2300	0.47	6	2.300	0.22
4.7	C	TL3C475(1)020(2)0600	0.47	6	0.600	0.43
6.8	C	TL3C685(1)020(2)1900	0.68	6	1.900	0.24
6.8	C	TL3C685(1)020(2)0550	0.68	6	0.550	0.45
10	B	TL3B106(1)020(2)2500	1.00	6	2.500	0.18
10	B	TL3B106(1)020(2)1000	1.00	6	1.000	0.29
10	C	TL3C106(1)020(2)1700	1.00	6	1.700	0.25
10	C	TL3C106(1)020(2)0450	1.00	6	0.450	0.49
15	D	TL3D156(1)020(2)0900	1.50	6	0.900	0.41
15	D	TL3D156(1)020(2)0300	1.50	6	0.300	0.71
22	C	TL3C226(1)020(2)1200	2.20	6	1.200	0.30
22	C	TL3C226(1)020(2)0375	2.20	6	0.375	0.54
22	D	TL3D226(1)020(2)0700	2.20	6	0.700	0.46
22	D	TL3D226(1)020(2)0225	2.20	6	0.225	0.82
33	D	TL3D336(1)020(2)0700	3.30	6	0.700	0.46
33	D	TL3D336(1)020(2)0200	3.30	6	0.200	0.87
47	D	TL3D476(1)020(2)0700	4.70	6	0.700	0.46
47	D	TL3D476(1)020(2)0200	4.70	6	0.200	0.87
47	E	TL3E476(1)020(2)0600	4.70	6	0.600	0.52
47	E	TL3E476(1)020(2)0150	4.70	6	0.150	1.05
68	D	TL3D686(1)020(2)0700	6.80	6	0.700	0.46
68	D	TL3D686(1)020(2)0175	6.80	6	0.175	0.93
68	E	TL3E686(1)020(2)0600	6.80	6	0.600	0.52
68	E	TL3E686(1)020(2)0150	6.80	6	0.150	1.05
100	E	TL3E107(1)020(2)0500	10.00	8	0.500	0.57
100	E	TL3E107(1)020(2)0150	10.00	8	0.150	1.05

**Note**

- Part number definitions:
  - Capacitance tolerance: K, M
  - Termination and packaging: C, D, E, F





STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>25 V<sub>DC</sub> AT + 85 °C; 17 V<sub>DC</sub> AT + 125 °C</b>						
0.33	A	TL3A334(1)025(2)14R0	0.25	4	14.000	0.07
0.33	A	TL3A334(1)025(2)10R0	0.25	4	10.000	0.09
0.47	A	TL3A474(1)025(2)12R0	0.25	4	12.000	0.08
0.47	A	TL3A474(1)025(2)9000	0.25	4	9.000	0.09
0.68	B	TL3B684(1)025(2)7000	0.25	4	7.000	0.11
0.68	B	TL3B684(1)025(2)5000	0.25	4	5.000	0.13
1.0	A	TL3A105(1)025(2)7600	0.25	4	7.600	0.10
1.0	A	TL3A105(1)025(2)4000	0.25	4	4.000	0.14
1.0	B	TL3B105(1)025(2)5000	0.25	4	5.000	0.13
1.0	B	TL3B105(1)025(2)2000	0.25	4	2.000	0.21
1.5	B	TL3B155(1)025(2)4600	0.25	6	4.600	0.14
1.5	B	TL3B155(1)025(2)2000	0.25	6	2.000	0.21
2.2	A	TL3A225(1)025(2)6300	0.28	6	6.300	0.11
2.2	A	TL3A225(1)025(2)4000	0.28	6	4.000	0.14
2.2	B	TL3B225(1)025(2)3800	0.28	6	3.800	0.15
2.2	B	TL3B225(1)025(2)2300	0.28	6	2.300	0.19
2.2	C	TL3C225(1)025(2)2900	0.28	6	2.900	0.19
2.2	C	TL3C225(1)025(2)1000	0.28	6	1.000	0.33
3.3	B	TL3B335(1)025(2)3100	0.41	6	3.100	0.17
3.3	B	TL3B335(1)025(2)1500	0.41	6	1.500	0.24
3.3	C	TL3C335(1)025(2)2300	0.41	6	2.300	0.22
3.3	C	TL3C335(1)025(2)1000	0.41	6	1.000	0.33
4.7	B	TL3B475(1)025(2)2800	0.59	6	2.800	0.17
4.7	B	TL3B475(1)025(2)1500	0.59	6	1.500	0.24
4.7	C	TL3C475(1)025(2)2000	0.59	6	2.000	0.23
4.7	C	TL3C475(1)025(2)0525	0.59	6	0.525	0.46
6.8	C	TL3C685(1)025(2)1700	0.85	6	1.700	0.25
6.8	C	TL3C685(1)025(2)0500	0.85	6	0.500	0.47
6.8	D	TL3D685(1)025(2)1200	0.85	6	1.200	0.35
6.8	D	TL3D685(1)025(2)0350	0.85	6	0.350	0.65
10	B	TL3B106(1)025(2)2300	1.25	6	2.300	0.19
10	B	TL3B106(1)025(2)1300	1.25	6	1.300	0.26
10	C	TL3C106(1)025(2)1500	1.25	6	1.500	0.27
10	C	TL3C106(1)025(2)0450	1.25	6	0.450	0.49
10	D	TL3D106(1)025(2)1000	1.25	6	1.000	0.39
10	D	TL3D106(1)025(2)0300	1.25	6	0.300	0.71
15	C	TL3C156(1)025(2)1200	1.88	6	1.200	0.30
15	C	TL3C156(1)025(2)0425	1.88	6	0.425	0.51
15	D	TL3D156(1)025(2)0800	1.88	6	0.800	0.43
15	D	TL3D156(1)025(2)0250	1.88	6	0.250	0.77
22	D	TL3D226(1)025(2)0700	2.75	6	0.700	0.46
22	D	TL3D226(1)025(2)0200	2.75	6	0.200	0.87
33	D	TL3D336(1)025(2)0700	4.13	6	0.700	0.46
33	D	TL3D336(1)025(2)0300	4.13	6	0.300	0.71
33	E	TL3E336(1)025(2)0600	4.13	6	0.600	0.52
33	E	TL3E336(1)025(2)0200	4.13	6	0.200	0.91
47	D	TL3D476(1)025(2)0700	5.88	8	0.700	0.46
47	D	TL3D476(1)025(2)0350	5.88	8	0.350	0.65
47	E	TL3E476(1)025(2)0600	5.88	6	0.600	0.52
47	E	TL3E476(1)025(2)0300	5.88	6	0.300	0.74

**Note**

- Part number definitions:
  - (1) Capacitance tolerance: K, M
  - (2) Termination and packaging: C, D, E, F





STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>35 V<sub>DC</sub> AT + 85 °C; 23 V<sub>DC</sub> AT + 125 °C</b>						
0.10	A	TL3A104(1)035(2)20R0	0.25	4	20.000	0.06
0.10	A	TL3A104(1)035(2)10R0	0.25	4	10.000	0.09
0.15	A	TL3A154(1)035(2)18R0	0.25	4	18.000	0.06
0.15	A	TL3A154(1)035(2)6000	0.25	4	6.000	0.11
0.22	A	TL3A224(1)035(2)15R0	0.25	4	15.000	0.07
0.22	A	TL3A224(1)035(2)6000	0.25	4	6.000	0.11
0.33	A	TL3A334(1)035(2)13R0	0.25	4	13.000	0.08
0.33	A	TL3A334(1)035(2)6000	0.25	4	6.000	0.11
0.47	A	TL3A474(1)035(2)10R0	0.25	4	10.000	0.09
0.47	A	TL3A474(1)035(2)4000	0.25	4	4.000	0.14
0.47	B	TL3B474(1)035(2)8000	0.25	4	8.000	0.10
0.47	B	TL3B474(1)035(2)2500	0.25	4	2.500	0.33
0.68	B	TL3B684(1)035(2)6500	0.25	4	6.500	0.11
0.68	B	TL3B684(1)035(2)2500	0.25	4	2.500	0.18
1.0	A	TL3A105(1)035(2)7500	0.25	4	7.500	0.10
1.0	A	TL3A105(1)035(2)6000	0.25	4	6.000	0.11
1.0	B	TL3B105(1)035(2)5000	0.25	4	5.000	0.13
1.0	B	TL3B105(1)035(2)2000	0.25	4	2.000	0.21
1.5	B	TL3B155(1)035(2)4200	0.26	6	4.200	0.14
1.5	B	TL3B155(1)035(2)3000	0.26	6	3.000	0.17
1.5	C	TL3C155(1)035(2)3800	0.26	6	3.800	0.17
1.5	C	TL3C155(1)035(2)1500	0.26	6	1.500	0.27
2.2	B	TL3B225(1)035(2)3800	0.39	6	3.800	0.15
2.2	B	TL3B225(1)035(2)2300	0.39	6	2.300	0.19
2.2	C	TL3C225(1)035(2)2900	0.39	6	2.900	0.19
2.2	C	TL3C225(1)035(2)0900	0.39	6	0.900	0.35
3.3	B	TL3B335(1)035(2)3500	0.58	6	3.500	0.16
3.3	B	TL3B335(1)035(2)1500	0.58	6	1.500	0.24
3.3	C	TL3C335(1)035(2)2100	0.58	6	2.100	0.23
3.3	C	TL3C335(1)035(2)0700	0.58	6	0.700	0.40
4.7	C	TL3C475(1)035(2)1900	0.82	6	1.900	0.24
4.7	C	TL3C475(1)035(2)0600	0.82	6	0.600	0.43
4.7	D	TL3D475(1)035(2)1300	0.82	6	1.300	0.34
4.7	D	TL3D475(1)035(2)0600	0.82	6	0.600	0.50
6.8	C	TL3C685(1)035(2)1800	1.19	6	1.800	0.25
6.8	C	TL3C685(1)035(2)0900	1.19	6	0.900	0.35
6.8	D	TL3D685(1)035(2)1100	1.19	6	1.100	0.37
6.8	D	TL3D685(1)035(2)0300	1.19	6	0.300	0.71
10	C	TL3C106(1)035(2)1600	1.75	6	1.600	0.26
10	C	TL3C106(1)035(2)0850	1.75	6	0.850	0.36
10	D	TL3D106(1)035(2)0800	1.75	6	0.800	0.43
10	D	TL3D106(1)035(2)0300	1.75	6	0.300	0.71
15	D	TL3D156(1)035(2)0800	2.63	6	0.800	0.43
15	D	TL3D156(1)035(2)0400	2.63	6	0.400	0.61
22	D	TL3D226(1)035(2)0600	3.85	6	0.600	0.50
22	D	TL3D226(1)035(2)0400	3.85	6	0.400	0.61
22	E	TL3E226(1)035(2)0600	3.85	6	0.600	0.52
22	E	TL3E226(1)035(2)0300	3.85	6	0.300	0.74

**Note**

- Part number definitions:
  - Capacitance tolerance: K, M
  - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C ( $\mu$ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz ( $\Omega$ )	MAX. RIPPLE 100 kHz $I_{RMS}$ (A)
<b>50 V<sub>DC</sub> AT + 85 °C; 33 V<sub>DC</sub> AT + 125 °C</b>						
0.10	A	TL3A104(1)050(2)19R0	0.25	4	19.000	0.06
0.10	A	TL3A104(1)050(2)10R0	0.25	4	10.000	0.09
0.15	A	TL3A154(1)050(2)17R0	0.25	4	17.000	0.07
0.15	A	TL3A154(1)050(2)10R0	0.25	4	10.000	0.09
0.15	B	TL3B154(1)050(2)14R0	0.25	4	14.000	0.08
0.15	B	TL3B154(1)050(2)9000	0.25	4	9.000	0.10
0.22	B	TL3B224(1)050(2)12R0	0.25	4	12.000	0.08
0.22	B	TL3B224(1)050(2)8500	0.25	4	8.500	0.10
0.33	B	TL3B334(1)050(2)10R0	0.25	4	10.000	0.09
0.33	B	TL3B334(1)050(2)4500	0.25	4	4.500	0.14
0.47	B	TL3B474(1)050(2)8400	0.25	4	8.400	0.10
0.47	B	TL3B474(1)050(2)4000	0.25	4	4.000	0.15
0.47	C	TL3C474(1)050(2)6700	0.25	4	6.700	0.13
0.47	C	TL3C474(1)050(2)1800	0.25	4	1.800	0.25
0.68	C	TL3C684(1)050(2)5900	0.25	4	5.900	0.14
0.68	C	TL3C684(1)050(2)1600	0.25	4	1.600	0.26
1.0	B	TL3B105(1)050(2)6700	0.25	4	6.700	0.11
1.0	B	TL3B105(1)050(2)2000	0.25	4	2.000	0.21
1.0	C	TL3C105(1)050(2)4600	0.25	4	4.600	0.15
1.0	C	TL3C105(1)050(2)1600	0.25	4	1.600	0.26
1.5	C	TL3C155(1)050(2)3400	0.38	6	3.400	0.18
1.5	C	TL3C155(1)050(2)1500	0.38	6	1.500	0.27
1.5	D	TL3D155(1)050(2)2900	0.38	6	2.900	0.23
1.5	D	TL3D155(1)050(2)1000	0.375	6	1.000	0.39
2.2	C	TL3C225(1)050(2)2900	0.55	6	2.900	0.19
2.2	C	TL3C225(1)050(2)1500	0.55	6	1.500	0.27
2.2	D	TL3D225(1)050(2)2100	0.55	6	2.100	0.27
2.2	D	TL3D225(1)050(2)0800	0.55	6	0.800	0.43
3.3	D	TL3D335(1)050(2)1700	0.83	6	1.700	0.30
3.3	D	TL3D335(1)050(2)0800	0.83	6	0.800	0.43
4.7	D	TL3D475(1)050(2)1200	1.18	6	1.200	0.35
4.7	D	TL3D475(1)050(2)0600	1.18	6	0.600	0.50
6.8	E	TL3E685(1)050(2)0900	1.70	6	0.900	0.43
6.8	E	TL3E685(1)050(2)0540	1.70	6	0.540	0.55
10	E	TL3E106(1)050(2)0800	2.50	6	0.800	0.45
10	E	TL3E106(1)050(2)0550	2.50	6	0.550	0.55

**Note**

- Part number definitions:
  - (1) Capacitance tolerance: K, M
  - (2) Termination and packaging: C, D, E, F



<b>RECOMMENDED VOLTAGE DERATING GUIDELINES</b> (for temperatures below + 85 °C)	
<b>STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS</b>	
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
<b>SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS</b>	
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	38

<b>POWER DISSIPATION</b>	
CASE CODE	MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR
A	0.075
B	0.085
C	0.110
D	0.150
E	0.165

<b>STANDARD PACKAGING QUANTITY</b>		
CASE CODE	UNITS PER REEL	
	7" REEL	13" REEL
A	2000	9000
B	2000	8000
C	500	3000
D	500	2500
E	400	1500

<b>PRODUCT INFORMATION</b>	
Guide for Molded Tantalum Capacitors	<a href="http://www.vishay.com/doc?40074">www.vishay.com/doc?40074</a>
Pad Dimensions	
Packaging Dimensions	
Moisture Sensitivity	<a href="http://www.vishay.com/doc?40135">www.vishay.com/doc?40135</a>
<b>SELECTOR GUIDES</b>	
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>
<b>FAQ</b>	
Frequently Asked Questions	<a href="http://www.vishay.com/doc?40110">www.vishay.com/doc?40110</a>



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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**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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