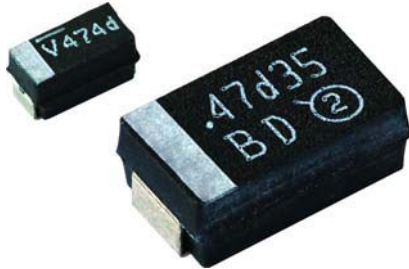


Solid Tantalum Surface Mount, TANTAMOUNT[®], Molded Case, Very Low DCL


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

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 _w	T _H (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		
	“A” CASE VOLTAGE CODE	
	VOLTS	CODE
	4.0	G
	6.3	J
	10	A
	16	C
	20	D
25	E	
35	V	
50	T	
Marking 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 _{RMS} (A)	
4 V_{DC} AT + 85 °C; 2.7 V_{DC} AT + 125 °C							
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 (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
6 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C						
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:
 - Capacitance tolerance: K, M
 - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C						
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:
 - Capacitance tolerance: K, M
 - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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						
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:
 - (1) Capacitance tolerance: K, M
 - (2) Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
20 V_{DC} AT + 85 °C; 13 V_{DC} AT + 125 °C						
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 (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
25 V_{DC} AT + 85 °C; 17 V_{DC} AT + 125 °C						
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:
 - Capacitance tolerance: K, M
 - Termination and packaging: C, D, E, F



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C						
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 (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE 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)
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C						
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:
 - Capacitance tolerance: K, M
 - Termination and packaging: C, D, E, F



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	3.3
10	5.0
16	8.0
20	10
25	12
35	15
50	24
63	32
SEVERE CONDITIONS. FOR EXAMPLE: INPUT 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	38

POWER DISSIPATION	
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

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

PRODUCT INFORMATION	
Guide for Molded Tantalum Capacitors	www.vishay.com/doc?40074
Pad Dimensions	
Packaging Dimensions	
Moisture Sensitivity	www.vishay.com/doc?40135
SELECTOR GUIDES	
Solid Tantalum Selector Guide	www.vishay.com/doc?49053
Solid Tantalum Chip Capacitors	www.vishay.com/doc?40091
FAQ	
Frequently Asked Questions	www.vishay.com/doc?40110



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

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

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.