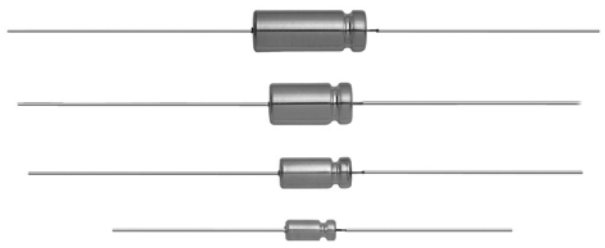
Wet Tantalum Capacitors Sintered Anode TANTALEX® Capacitors for Operation to + 125 °C, Elastomer-Sealed



FEATURES

- Axial through-hole terminations: Standard tin/lead (SnPb), 100 % tin (RoHS compliant) available
- Vishay Sprague model 109D tubular elastomer-sealed, sintered anode TANTALEX® capacitors fill the basic requirements for applications where a superior quality, reliable design for industrial, automotive and telecommunications application is desired.
- Model 109D capacitors are the commercial equivalents of Tansitor style WC, UWC, Mallory-NACC style TLS, TLH and the Military Style CL64 and CL65, designed to meet the performance requirements of Military Specification MIL-DTL-3965.
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free Available

RoHS* COMPLIANT

Note

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

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C
(to + 125 °C with voltage derating)

Capacitance Tolerance: At 120 Hz, + 25 °C.
± 20 % standard. ± 10 %, ± 5 % available as special.

DC Leakage Current (DCL max.):
At + 25 °C, + 85 °C, + 125 °C: Leakage current shall not exceed the values listed in the Standard Ratings tables.

Life Test: Capacitors are capable of withstanding a 2000 h life test at a temperature of + 85 °C or + 125 °C at the applicable DC working voltage.

Following the life test:

1. DCL shall not exceed the initial requirements or 1 µA, whichever is greater.
2. The ESR shall meet the initial requirement.
3. Change in capacitance shall not exceed 10 % from the initial measurement. For capacitors with voltage ratings of 15 V_{DC} and below, change in capacitance shall not exceed + 10 %, - 25 % from the initial measurement.

ORDERING INFORMATION

109D	207	X0	006	C	0	E3
MODEL	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	CASE CODE	STYLE NUMBER	RoHS COMPLIANT
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow	X0 = ± 20 % X9 = ± 10 % X5 = ± 5 % special order	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)	See Ratings and Case Codes table	0 = No outer sleeve Standard 2 = Outer plastic film insulation	E3 = 100 % tin termination (RoHS compliant) Blank = SnPb termination (standard design)

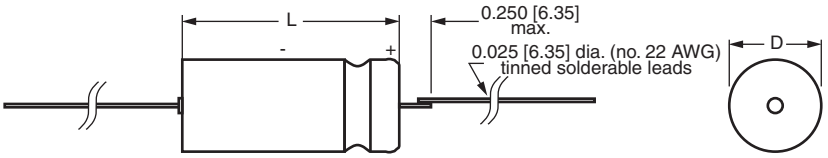
Note

- Packaging: The use of formed plastic trays for packaging these axial lead components is standard. Tape and reel is not recommended due to the unit weight.

For technical questions, contact: tantalum@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

DIMENSIONS in inches [millimeters]



CASE CODE	BARE TUBE		WITH PLASTIC-FILM INSULATING SLEEVE		LEAD LENGTH
	D	L	D Max.	L Max.	
C	0.188 ± 0.016 [4.78 ± 0.41]	0.453 + 0.031/- 0.016 [11.51 + 0.79/- 0.41]	0.219 [5.56]	0.608 [15.45]	1.500 ± 0.250 [38.10 ± 6.35]
F	0.281 ± 0.016 [7.14 ± 0.41]	0.641 + 0.031/- 0.016 [16.28 + 0.79/- 0.41]	0.312 [7.92]	0.796 [20.22]	2.250 ± 0.250 [57.15 ± 6.35]
T	0.375 ± 0.016 [9.53 ± 0.41]	0.766 + 0.031/- 0.016 [19.46 + 0.79/- 0.41]	0.406 [10.31]	0.921 [23.40]	2.250 ± 0.250 [57.15 ± 6.35]
K (1)	0.375 ± 0.016 [9.53 ± 0.41]	1.062 + 0.031/- 0.016 [26.97 + 0.79/- 0.41]	0.406 [10.31]	1.217 [30.91]	2.250 ± 0.250 [57.15 ± 6.35]

Note

(1) Replaces previous W case

STANDARD RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER (1)	MAX. ESR AT + 25 °C 120 Hz (Ω)	MAX. IMP. AT - 55 °C 120 Hz (Ω)	MAX. DCL (µA) AT		MAX. CAPACITANCE CHANGE (%) AT			MAX. RMS RIPPLE CURRENT 120 Hz (mA)
					+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	
6 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C										
68	C	109D686X0006C0	4	60	1	2	- 40	+ 14	+ 16	160
140	F	109D147X0006F0	2	40	1	3	- 40	+ 14	+ 16	330
270	F	109D277X0006F0	4	25	1	7	- 44	+ 17.5	+ 20	270
560	T	109D567X0006T0	3	25	2	13	- 64	+ 17.5	+ 20	340
1200	K	109D128X0006K0	1.6	20	3	14	- 80	+ 25	+ 25	530
8 V_{DC} AT + 85 °C; 5 V_{DC} AT + 125 °C										
22	C	109D226X0008C0	6	115	1	2	- 40	+ 10.5	+ 12	130
220	F	109D227X0008F0	4	30	1	7	- 44	+ 17.5	+ 20	270
10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C										
20	C	109D206X0010C0	5	175	1	2	- 32	+ 10.5	+ 12	140
47	C	109D476X0010C0	5	100	1	2	- 36	+ 14	+ 16	160
180	F	109D187X0010F0	4	40	1	7	- 36	+ 14	+ 16	270
390	T	109D397X0010T0	3	25	2	16	- 64	+ 17.5	+ 20	340
15 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C										
15	C	109D156X0015C0	6	155	1	2	- 24	+ 10.5	+ 12	130
33	C	109D336X0015C0	5	90	1	2	- 28	+ 14	+ 16	160
120	F	109D127X0015F0	4	50	1	7	- 28	+ 17.5	+ 20	270
270	T	109D277X0015T0	3	30	2	16	- 56	+ 17.5	+ 20	340
540	K	109D547X0015K0	1.2	23	6	24	- 80	+ 25	+ 25	610
25 V_{DC} AT + 85 °C; 15 V_{DC} AT + 125 °C										
10	C	109D106X0025C0	6	220	1	2	- 16	+ 8	+ 9	130
22	C	109D226X0025C0	5	140	1	3	- 20	+ 10.5	+ 12	160
50	F	109D506X0025F0	4	70	1	5	- 28	+ 13	+ 15	270
100	F	109D107X0025F0	4	50	1	10	- 28	+ 13	+ 15	270
100	T	109D107X0025T0	4	45	2	10	- 48	+ 13	+ 15	410
180	T	109D187X0025T0	4	32	2	18	- 48	+ 13	+ 15	340
350	K	109D357X0025K0	1.3	24	7	28	- 70	+ 25	+ 25	580
30 V_{DC} AT + 85 °C; 20 V_{DC} AT + 125 °C										
7	C	109D705X0030C0	8	275	1	2	- 16	+ 8	+ 12	110
8	C	109D805X0030C0	7.5	275	1	2	- 16	+ 8	+ 12	130
15	C	109D156X0030C0	8	175	1	2	- 20	+ 10.5	+ 12	160
40	F	109D406X0030F0	4	65	1	5	- 24	+ 10.5	+ 12	270
68	F	109D686X0030F0	6	60	1	8	- 24	+ 13	+ 15	270
100	T	109D107X0030T0	6	40	2	12	- 28	+ 10.5	+ 12	410
150	T	109D157X0030T0	4.1	35	2	18	- 48	+ 13	+ 15	340
300	K	109D307X0030K0	1.6	25	8	32	- 60	+ 25	+ 25	550

Note

(1) Part numbers shown are for units with ± 20 % capacitance tolerance and uninsulated capacitors. For ± 10 % units, change the digit following the letter "X" from "0" to "9". For units with outer plastic-film insulation, substitute "2" for "0" at the end of the part number. For RoHS compliant add "E3".

For technical questions, contact: tantalum@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

STANDARD RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER [1]	MAX. ESR AT + 25 °C 120 Hz (Ω)	MAX. IMP. AT - 55 °C 120 Hz (Ω)	MAX. DCL (µA) AT		MAX. CAPACITANCE CHANGE (%) AT			MAX. RMS RIPPLE CURRENT 120 Hz (mA)
					+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	
50 V_{DC} AT + 85 °C; 30 V_{DC} AT + 125 °C										
4.5	C	109D455X0050C0	9	400	1	2	- 16	+ 5	+ 6	110
5	C	109D505X0050C0	9	400	1	2	- 16	+ 5	+ 6	130
10	C	109D106X0050C0	8	250	1	2	- 24	+ 8	+ 9	160
22	F	109D226X0050F0	7	95	1	4	- 20	+ 10.5	+ 12	230
25	F	109D256X0050F0	6	95	1	5	- 20	+ 10.5	+ 12	270
47	F	109D476X0050F0	6	70	1	9	- 28	+ 13	+ 15	270
60	T	109D606X0050T0	3	45	2	12	- 16	+ 10.5	+ 12	410
82	T	109D826X0050T0	4	45	2	16	- 32	+ 13	+ 15	340
160	K	109D167X0050K0	2.2	27	8	32	- 50	+ 25	+ 25	460
60 V_{DC} AT + 85 °C; 40 V_{DC} AT + 125 °C										
4	C	109D405X0060C0	10	550	1	2	- 16	+ 5	+ 6	110
8.2	C	109D825X0060C0	8	275	1	2	- 24	+ 8	+ 9	140
20	F	109D206X0060F0	5	105	1	5	- 16	+ 10.5	+ 12	270
39	F	109D396X0060F0	7	90	1	9	- 28	+ 10.5	+ 12	230
50	T	109D506X0060T0	4	50	2	12	- 16	+ 10.5	+ 12	410
68	T	109D686X0060T0	6	50	2	16	- 32	+ 10.5	+ 12	340
140	K	109D147X0060K0	2.4	28	8	32	- 40	+ 20	+ 20	430
75 V_{DC} AT + 85 °C; 50 V_{DC} AT + 125 °C										
3.5	C	109D355X0075C0	10	650	1	2	- 16	+ 5	+ 6	110
6.8	C	109D685X0075C0	8	300	1	2	- 20	+ 8	+ 9	140
13	F	109D136X0075F0	6	160	1	4	- 16	+ 8	+ 9	190
15	F	109D156X0075F0	6.5	150	1	5	- 16	+ 8	+ 9	270
33	F	109D336X0075F0	7	90	1	10	- 24	+ 10.5	+ 15	230
40	T	109D406X0075T0	5	60	2	12	- 16	+ 10.5	+ 12	410
56	T	109D566X0075T0	6	60	2	17	- 28	+ 10.5	+ 15	300
110	K	109D117X0075K0	3.1	29	9	36	- 35	+ 20	+ 20	400
100 V_{DC} AT + 85 °C; 65 V_{DC} AT + 125 °C										
2.5	C	109D255X0100C0	26.5	950	1	2	- 16	+ 7	+ 8	100
3.0	C	109D305X0100C0	10	800	1	2	- 16	+ 7	+ 8	110
4.7	C	109D475X0100C0	10	500	1	2	- 16	+ 7	+ 8	130
10	F	109D106X0100F0	6	215	1	4	- 16	+ 7	+ 8	190
11	F	109D116X0100F0	6	200	1	4	- 16	+ 7	+ 8	230
22	F	109D226X0100F0	7	100	1	9	- 16	+ 7	+ 8	230
30	T	109D306X0100T0	4	80	2	12	- 16	+ 7	+ 8	340
43	T	109D436X0100T0	6	70	2	17	- 20	+ 7	+ 8	300
125 V_{DC} AT + 85 °C; 85 V_{DC} AT + 125 °C										
1.7	C	109D175X0125C0	54.6	1250	1	2	- 16	+ 7	+ 8	100
3.6	C	109D365X0125C0	15	600	1	2	- 16	+ 7	+ 8	110
9	F	109D905X0125F0	15	240	1	5	- 16	+ 7	+ 8	210
14	F	109D146X0125F0	12	167	1	7	- 16	+ 7	+ 8	190
25	T	109D256X0125T0	10	93	2	13	- 16	+ 7	+ 8	260

Note

[1] Part numbers shown are for units with ± 20 % capacitance tolerance and uninsulated capacitors. For ± 10 % units, change the digit following the letter “X” from “0” to “9”. For units with outer plastic-film insulation, substitute “2” for “0” at the end of the part number. For RoHS compliant add “E3“.

For technical questions, contact: tantalum@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

EXTENDED RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER (1)	MAX. ESR AT + 25 °C 120 Hz (Ω)	MAX. IMP. AT - 55 °C 120 Hz (Ω)	MAX. DCL (µA) AT		MAX. CAPACITANCE CHANGE (%) AT			MAX. RMS RIPPLE CURRENT 120 Hz (mA)
					+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	
6 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C										
140	C	109D147X0006C2	3	54	2	9	- 45	+ 13	+ 16	160
820	F	109D827X0006F0	2.5	18	3	14	- 88	+ 16	+ 20	300
1500	T	109D158X0006T0	1.5	18	5	20	- 90	+ 20	+ 25	480
2200	K	109D228X0006K0	1	13	6	24	- 90	+ 25	+ 30	670
8 V_{DC} AT + 85 °C; 5 V_{DC} AT + 125 °C										
680	F	109D687X0008F0	2.5	22	3	14	- 83	+ 16	+ 20	300
10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C										
120	C	109D127X0010C0	4	60	2	9	- 45	+ 13	+ 16	160
150	C	109D157X0010C0	3	54	2	9	- 55	+ 13	+ 16	180
470	F	109D477X0010F0	2.5	30	3	16	- 65	+ 16	+ 20	300
560	F	109D567X0010F0	2.5	27	3	16	- 77	+ 16	+ 20	300
1000	T	109D108X0010T0	1.5	20	5	20	- 75	+ 20	+ 25	480
1200	T	109D128X0010T0	1.5	18	5	20	- 88	+ 20	+ 25	480
1200	K	109D128X0010K0	1	18	7	25	- 75	+ 30	+ 30	670
1500	K	109D158X0010K0	1	15	7	25	- 88	+ 25	+ 30	670
15 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C										
82	C	109D826X0015C0	4	80	2	9	- 38	+ 13	+ 16	160
100	C	109D107X0015C0	4	72	2	9	- 44	+ 13	+ 16	160
330	F	109D337X0015F0	2.5	35	3	16	- 60	+ 16	+ 20	300
390	F	109D397X0015F0	2.5	31	3	16	- 66	+ 16	+ 20	300
510	T	109D517X0015T0	1.8	25	6	24	- 65	+ 20	+ 25	340
820	T	109D827X0015T0	1.8	22	6	24	- 77	+ 20	+ 25	440
820	K	109D827X0015K0	1.2	20	8	32	- 70	+ 30	+ 30	610
1000	K	109D108X0015K0	1.2	17	8	32	- 77	+ 25	+ 30	610
25 V_{DC} AT + 85 °C; 15 V_{DC} AT + 125 °C										
68	C	109D686X0025C0	4.3	90	2	9	- 40	+ 12	+ 15	160
270	F	109D277X0025F0	2.7	33	3	16	- 62	+ 13	+ 16	300
560	T	109D567X0025T0	1.8	24	7	28	- 72	+ 20	+ 25	440
680	K	109D687X0025K0	1.2	19	8	32	- 72	+ 25	+ 30	610
750	K	109D757X0025K2	1.0	18	8	29	- 60	+ 25	+ 25	610
30 V_{DC} AT + 85 °C; 20 V_{DC} AT + 125 °C										
39	C	109D396X0030C0	5.2	110	2	- 28	+ 10	+ 12		140
47	C	109D476X0030C0	5.2	100	2	9	- 30	+ 10	+ 12	140
56	C	109D566X0030C0	5.2	100	2	9	- 38	+ 12	+ 15	140
150	F	109D157X0030F0	2.5	40	3	9	- 40	+ 12	+ 15	300
180	F	109D187X0030F0	2.5	40	3	16	- 45	+ 13	+ 16	300
220	F	109D227X0030F0	2.5	36	3	16	- 60	+ 13	+ 16	300
330	T	109D337X0030T0	1.8	28	8	16	- 45	+ 20	+ 25	440
390	T	109D397X0030T0	1.8	28	8	32	- 50	+ 20	+ 25	440
470	T	109D477X0030T0	1.8	25	8	32	- 65	+ 20	+ 25	550
560	K	109D567X0030K0	1.3	20	9	32	- 65	+ 25	+ 30	590

Note

(1) Part numbers shown are for units with ± 20 % capacitance tolerance and uninsulated capacitors. For ± 10 % units, change the digit following the letter "X" from "0" to "9". For units with outer plastic-film insulation, substitute "2" for "0" at the end of the part number. For RoHS compliant add "E3".

For technical questions, contact: tantalum@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

EXTENDED RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER [1]	MAX. ESR AT + 25 °C 120 Hz (Ω)	MAX. IMP. AT - 55 °C 120 Hz (Ω)	MAX. DCL (µA) AT		MAX. CAPACITANCE CHANGE (%) AT			MAX. RMS RIPPLE CURRENT 120 Hz (mA)
					+ 25 °C	+ 85 °C + 125 °C	- 55 °C	+ 85 °C	+ 125 °C	
50 V_{DC} AT + 85 °C; 30 V_{DC} AT + 125 °C										
33	C	109D336X0050C0	5	135	2	9	- 29	+ 10	+ 12	140
120	F	109D127X0050F0	2.5	49	4	24	- 42	+ 12	+ 15	300
270	T	109D277X0050T0	1.8	29	8	32	- 46	+ 20	+ 25	440
330	K	109D337X0050K0	1.5	22	9	36	- 46	+ 25	+ 30	550
60 V_{DC} AT + 85 °C; 40 V_{DC} AT + 125 °C										
27	C	109D276X0060C0	5	144	3	12	- 24	+ 10	+ 12	140
68	F	109D686X0060F0	3	60	3	20	- 30	+ 12	+ 15	270
100	F	109D107X0060F0	2.5	54	4	20	- 36	+ 12	+ 15	300
140	T	109D147X0060T0	2	32	8	32	- 30	+ 16	+ 20	420
220	T	109D227X0060T0	1.8	29	8	32	- 40	+ 16	+ 20	440
270	K	109D277X0060K0	1.5	23	9	36	- 45	+ 20	+ 25	550
75 V_{DC} AT + 85 °C; 50 V_{DC} AT + 125 °C										
12	C	109D126X0075C0	5	175	2	12	- 12	+ 8	+ 10	140
15	C	109D156X0075C0	5	160	2	12	- 14	+ 10	+ 12	140
22	C	109D226X0075C0	5	157	3	12	- 19	+ 10	+ 12	140
47	F	109D476X0075F0	3	75	4	24	- 18	+ 10	+ 12	270
56	F	109D566X0075F0	3	70	4	24	- 20	+ 12	+ 15	270
82	F	109D826X0075F0	2.5	63	4	24	- 30	+ 12	+ 15	300
110	T	109D117X0075T0	2	33	9	36	- 25	+ 16	+ 20	420
180	T	109D187X0075T0	1.8	30	9	36	- 35	+ 16	+ 20	440
220	K	109D227X0075K0	2.2	24	10	40	- 40	+ 20	+ 25	450
270	K	109D277X0075K2	1.3	24	10	40	- 40	+ 20	+ 25	450
100 V_{DC} AT + 85 °C; 65 V_{DC} AT + 125 °C										
8.2	C	109D825X0100C0	6	250	3	12	- 12	+ 12	+ 12	130
10	C	109D106X0100C0	6	200	3	12	- 17	+ 10	+ 12	130
33	F	109D336X0100F0	3.5	85	4	24	- 18	+ 15	+ 15	250
39	F	109D396X0100F0	3.5	80	5	24	- 20	+ 12	+ 15	250
56	T	109D566X0100T0	2.2	45	9	36	- 20	+ 15	+ 15	400
68	T	109D686X0100T0	2.2	40	10	40	- 30	+ 14	+ 16	400
86	K	109D866X0100K0	3.2	30	10	40	- 25	+ 15	+ 15	370
125 V_{DC} AT + 85 °C; 85 V_{DC} AT + 125 °C										
6.8	C	109D685X0125C0	11.7	300	3	12	- 14	+ 10	+ 12	130
27	F	109D276X0125F0	3.5	90	5	24	- 18	+ 12	+ 15	250
47	T	109D476X0125T0	2.2	50	10	40	- 26	+ 14	+ 16	400
56	K	109D566X0125K0	4.1	32	10	40	- 25	+ 15	+ 15	330

Note

[1] Part numbers shown are for units with ± 20 % capacitance tolerance and uninsulated capacitors. For ± 10 % units, change the digit following the letter “X” from “0” to “9”. For units with outer plastic-film insulation, substitute “2” for “0” at the end of the part number. For RoHS compliant add “E3“.

For technical questions, contact: tantalum@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

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.

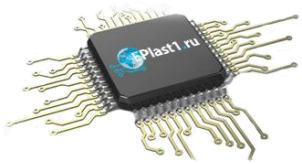
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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.