

ALUMINUM ELECTROLYTIC CAPACITORS

PW Miniature Sized, Low Impedance,
High Reliability For Switching Power Supplies
series



- Smaller case size and lower impedance than PM series.
- Low impedance and high reliability withstanding 2000 hours to 8000 hours.
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)											
Rated Voltage Range	6.3 to 450V											
Rated Capacitance Range	0.47 to 15000µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 to 100	160 to 450									
	Leakage current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (µA), whichever is greater. CV ≤ 1000: I = 0.1CV+40 (µA) max. CV > 1000: I = 0.04CV+100 (µA) max.										
Tangent of loss angle (tan δ)	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency : 120Hz at 20°C											
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	315 - 350	400 - 450
Stability at Low Temperature	Impedance ratio (MAX.)	Z-25°C / Z+20°C	—	—	—	—	3	3	4	6	15	—
		Z-40°C / Z+20°C	—	—	—	—	—	—	4	6	10	—
		Z-55°C / Z+20°C	3	3	3	3	—	—	—	—	—	—
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 8000 hours (2000 hours for φD=4, 5 and 6.3, 3000 hours for φD=8, 5000 hours for φD=10, 7000 hours for φD=12.5) at 105°C, the peak voltage shall not exceed the rated voltage.											
	Capacitance change	Within ±20% of the initial capacitance value										
Shelf Life	tan δ	200% or less than the initial specified value										
	Leakage current	Less than or equal to the initial specified value										
Marking	Printed with white color letter on dark brown sleeve.											

Radial Lead Type



α	(L = 7) 1.0
	(L < 20) 1.5
	(L ≥ 20) 2.0

	(mm)										
φD	4	5	6.3	8	10	12.5	16	18	20	22	25
P	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0	12.5
φd	0.45	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	1.0
β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0

※: Applied to L>25 products
(): Applied to 7mmL products

Type numbering system (Example : 10V 680µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
4 - 5	DD
6.3	ED (7mm L : DD)
8 - 10	PD
12.5 to 18	HD
20 to 25	RD

• Please refer to page 20 about the end seal configuration.

Frequency coefficient of rated ripple current

V	Cap. (µF)	Frequency				
		50Hz	120Hz	300Hz	1kHz	10kHz or more
6.3 to 100	0.47 to 56	0.20	0.30	0.50	0.80	1.00
	68 to 330	0.55	0.65	0.75	0.85	1.00
	390 to 1000	0.70	0.75	0.80	0.90	1.00
	1200 to 15000	0.80	0.85	0.90	0.95	1.00
160 to 450	0.47 to 220	0.80	1.00	1.25	1.40	1.60
	330 to 470	0.90	1.00	1.10	1.13	1.15

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

- Dimension table in next page.



Standard Ratings

Cap. (μF)	V (Code)	Item Code	6.3 (0J)			10 (1A)				
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
22	220		5 × 11	0.60	1.20	180	5 × 11 ▲ 4 × 7	0.60 2.00	1.20 5.00	180 65
27	270		4 × 7	2.00	5.00	65				
33	330		5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120	5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120
39	390						5 × 7	0.95	2.40	120
47	470		5 × 11 ▲ 5 × 7	0.60 0.95	1.20 2.40	180 120	5 × 11 ▲ 4 × 11	0.60 1.30	1.20 2.60	180 120
56	560		5 × 7	0.95	2.40	120				
68	680		4 × 11	1.30	2.60	120				
82	820						5 × 11 ▲ 6.3 × 7	0.60 0.45	1.20 1.20	180 200
100	101		5 × 11	0.60	1.20	180	5 × 11 ▲ 5 × 15	0.60 0.50	1.20 1.00	180 235
120	121		6.3 × 7	0.45	1.20	200				
150	151		6.3 × 11 ▲ 5 × 15	0.25 0.50	0.50 1.00	290 235	6.3 × 11	0.25	0.50	290
180	181						6.3 × 11	0.25	0.50	290
220	221		6.3 × 11	0.25	0.50	290	6.3 × 11 ▲ 6.3 × 15	0.25 0.23	0.50 0.46	290 430
330	331		6.3 × 11 ▲ 6.3 × 15	0.25 0.23	0.50 0.46	290 430	8 × 11.5	0.117	0.234	555
470	471		8 × 11.5	0.117	0.234	555	8 × 11.5	0.117	0.234	555
560	561		8 × 11.5	0.117	0.234	555				
680	681		10 × 12.5	0.090	0.180	755	10 × 12.5 ▲ 8 × 15	0.090 0.085	0.180 0.170	760 730
820	821		8 × 15 ▲ 10 × 12.5	0.085 0.090	0.170 0.180	730 755				
1000	102		10 × 12.5	0.090	0.180	755	10 × 16 ▲ 8 × 20	0.068 0.065	0.136 0.130	1050 995
1200	122		8 × 20 ▲ 10 × 16	0.065 0.068	0.130 0.136	995 1050	10 × 20	0.052	0.104	1220
1500	152		10 × 20	0.052	0.104	1220	10 × 20 ▲ 10 × 25	0.052 0.045	0.104 0.090	1220 1440
2200	222		12.5 × 20 ▲ 10 × 25	0.038 0.045	0.076 0.090	1655 1440	12.5 × 20 ▲ 10 × 31.5	0.038 0.035	0.076 0.070	1655 1815
2700	272		10 × 31.5	0.035	0.070	1815	12.5 × 25	0.030	0.060	1945
3300	332		12.5 × 20	0.038	0.076	1655	12.5 × 25 ▲ 12.5 × 31.5	0.030 0.025	0.060 0.050	1950 2310
3900	392		12.5 × 25	0.030	0.060	1945	12.5 × 35.5 ▲ 16 × 20	0.022 0.029	0.044 0.058	2510 2210
4700	472		16 × 25 ▲ 12.5 × 31.5	0.022 0.025	0.044 0.050	2555 2310	16 × 25	0.022	0.044	2555
5600	562		12.5 × 35.5 ▲ 16 × 20	0.022 0.029	0.044 0.058	2510 2210	16 × 25 ▲ 18 × 20	0.022 0.028	0.044 0.056	2560 2490
6800	682		16 × 25 ▲ 18 × 20	0.022 0.028	0.044 0.056	2560 2490	16 × 31.5 ▲ 18 × 25	0.018 0.020	0.036 0.040	3010 2740
8200	822		16 × 31.5	0.018	0.036	3010	16 × 35.5 ▲ 18 × 31.5	0.016 0.016	0.032 0.032	3150 3635
10000	103		16 × 31.5 ▲ 18 × 25	0.016 0.020	0.032 0.040	3150 2740	18 × 35.5	0.015	0.030	3680
12000	123		18 × 31.5	0.016	0.032	3635				
15000	153		18 × 35.5	0.015	0.030	3680	18 × 40	0.014	0.028	3800

▲ : In this case, [6] will be put at 12th digit of type numbering system.



Standard Ratings

V(Code)		16 (1C)				25 (1E)			
Cap. (μF)	Item Code	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz
			20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
4.7	4R7					5 × 11	0.60	1.20	180
10	100	5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180
						▲4 × 7	2.00	5.00	65
15	150	4 × 7	2.00	5.00	65				
22	220	5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180
		▲5 × 7	0.95	2.40	120	▲5 × 7	0.95	2.40	120
27	270	5 × 7	0.95	2.40	120	4 × 11	1.30	2.60	120
33	330	5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180
		▲6.3 × 7	0.45	1.20	200				
39	390	4 × 11	1.30	2.60	120	5 × 11	0.60	1.20	180
						▲6.3 × 7	0.45	1.20	200
47	470	5 × 11	0.60	1.20	180	5 × 11	0.60	1.20	180
56	560	5 × 11	0.60	1.20	180	5 × 15	0.50	1.00	235
		▲6.3 × 7	0.45	1.20	200				
82	820	5 × 15	0.50	1.00	235	6.3 × 11	0.25	0.50	290
100	101	6.3 × 11	0.25	0.50	290	6.3 × 11	0.25	0.50	290
120	121	6.3 × 11	0.25	0.50	290	6.3 × 15	0.23	0.46	430
150	151	6.3 × 11	0.25	0.50	290	8 × 11.5	0.117	0.234	555
180	181	6.3 × 15	0.23	0.46	430				
220	221	8 × 11.5	0.117	0.234	555	8 × 11.5	0.117	0.234	555
330	331	8 × 11.5	0.117	0.234	555	10 × 12.5	0.090	0.180	760
						▲8 × 15	0.085	0.170	730
470	471	10 × 12.5	0.090	0.180	760	10 × 16	0.068	0.136	1050
		▲8 × 15	0.085	0.170	730	▲8 × 20	0.065	0.130	995
560	561					10 × 20	0.052	0.104	1220
680	681	10 × 16	0.068	0.136	1050	10 × 20	0.052	0.104	1220
		▲8 × 20	0.065	0.130	995				
820	821	10 × 20	0.052	0.104	1220	10 × 25	0.045	0.090	1440
1000	102	10 × 20	0.052	0.104	1220	12.5 × 20	0.038	0.076	1660
						▲10 × 31.5	0.035	0.070	1815
1200	122	10 × 25	0.045	0.090	1440				
1500	152	12.5 × 20	0.038	0.076	1655	16 × 25	0.022	0.044	2555
		▲10 × 31.5	0.035	0.070	1815	▲12.5 × 25	0.030	0.060	1950
1800	182					12.5 × 31.5	0.025	0.050	2310
						▲16 × 20	0.029	0.058	2210
2200	222	12.5 × 25	0.030	0.060	1945	16 × 25	0.022	0.044	2555
						▲18 × 20	0.028	0.056	2490
						※12.5 × 35.5	0.022	0.044	2510
2700	272	12.5 × 31.5	0.025	0.050	2310	16 × 25	0.022	0.044	2555
		▲16 × 20	0.029	0.058	2210				
3300	332	16 × 25	0.022	0.044	2555	16 × 31.5	0.018	0.036	3010
		▲12.5 × 35.5	0.022	0.044	2510	▲18 × 25	0.020	0.040	2740
3900	392	16 × 25	0.022	0.044	2560	16 × 35.5	0.016	0.032	3150
		▲18 × 20	0.028	0.056	2490	▲18 × 31.5	0.016	0.032	3635
4700	472	16 × 31.5	0.018	0.036	3010	18 × 35.5	0.015	0.030	3680
		▲18 × 25	0.020	0.040	2740				
5600	562	16 × 35.5	0.016	0.032	3150				
		▲18 × 31.5	0.016	0.032	3635				
6800	682	18 × 35.5	0.015	0.030	3680	18 × 40	0.014	0.028	3800
8200	822	18 × 35.5	0.015	0.030	3680				
10000	103	18 × 40	0.014	0.028	3800				

▲ : In this case, [6] will be put at 12th digit of type numbering system.
 ※ : In this case, [3] will be put at 12th digit of type numbering system.

Standard Ratings

Cap. (μF)	V(Code)	Item Code	35 (1V)				50 (1H)			
			Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz
				20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
0.47	R47					5 × 11	5.00	10.0	25	
1	010					5 × 11	3.50	7.00	40	
2.2	2R2					5 × 11	3.00	6.00	55	
3.3	3R3					5 × 11	2.60	5.20	65	
4.7	4R7		5 × 11	0.60	1.20	180	5 × 11	2.30	4.60	90
6.8	6R8		4 × 7	2.00	5.00	65				
10	100		5 × 11	0.60	1.20	180	5 × 11	1.40	2.80	120
		▲ 5 × 7	0.95	2.40	120	▲ 4 × 11	2.50	5.00	90	
12	120		5 × 7	0.95	2.40	120				
18	180		4 × 11	1.30	2.60	120	5 × 11	1.30	2.60	155
22	220		5 × 11	0.60	1.20	180	5 × 11	1.20	2.40	170
27	270		5 × 11	0.60	1.20	180	5 × 15	0.90	1.80	215
		▲ 6.3 × 7	0.45	1.20	200					
33	330		5 × 11	0.60	1.20	180	6.3 × 11	0.43	0.86	300
39	390		5 × 15	0.50	1.00	235				
47	470		6.3 × 11	0.25	0.50	290	6.3 × 11	0.43	0.86	300
56	560		6.3 × 11	0.25	0.50	290	6.3 × 15	0.40	0.80	360
82	820		6.3 × 15	0.23	0.46	430	8 × 11.5	0.234	0.468	485
100	101		8 × 11.5	0.117	0.234	555	8 × 11.5	0.234	0.468	485
							8 × 15	0.155	0.310	635
120	121						▲ 10 × 12.5	0.162	0.324	620
							10 × 12.5	0.162	0.324	615
150	151		8 × 11.5	0.117	0.234	555	8 × 20	0.120	0.240	860
180	181						▲ 10 × 16	0.119	0.238	850
							10 × 16	0.119	0.238	850
220	221		10 × 12.5	0.090	0.180	760	▲ 10 × 20	0.090	0.180	1030
		▲ 8 × 15	0.085	0.170	730	10 × 25	0.082	0.164	1200	
330	331		10 × 16	0.068	0.136	1050	10 × 20	0.090	0.180	1030
		▲ 8 × 20	0.065	0.130	995	▲ 10 × 31.5	0.060	0.120	1610	
390	391		10 × 20	0.052	0.104	1220	12.5 × 20	0.063	0.126	1480
470	471		10 × 20	0.052	0.104	1220	12.5 × 20	0.060	0.120	1500
560	561		10 × 25	0.045	0.090	1440	12.5 × 25	0.050	0.100	1832
			12.5 × 20	0.038	0.076	1660	12.5 × 25	0.050	0.100	1840
680	681		▲ 10 × 31.5	0.035	0.070	1815	▲ 16 × 20	0.048	0.096	1840
							12.5 × 35.5	0.034	0.068	2290
820	821						▲ 18 × 20	0.042	0.084	2420
							16 × 25	0.034	0.068	2235
1000	102		12.5 × 25	0.030	0.060	1950	16 × 31.5	0.028	0.056	2700
			12.5 × 31.5	0.025	0.050	2310	▲ 18 × 25	0.029	0.058	2610
1200	122		▲ 16 × 20	0.029	0.058	2210	16 × 31.5	0.028	0.056	2700
			16 × 25	0.022	0.044	2555	▲ 16 × 35.5	0.025	0.050	2790
1500	152		▲ 12.5 × 35.5	0.022	0.044	2510				
			16 × 25	0.022	0.044	2555	18 × 31.5	0.025	0.050	3000
1800	182		▲ 18 × 20	0.028	0.056	2490				
			16 × 31.5	0.018	0.036	3010				
2200	222		▲ 18 × 25	0.020	0.040	2740	18 × 35.5	0.023	0.046	3100
			16 × 35.5	0.016	0.032	3150				
2700	272		▲ 18 × 31.5	0.016	0.032	3635				
			18 × 35.5	0.015	0.030	3680				
3300	332		18 × 40	0.014	0.028	3800				
4700	472									

▲ : In this case, [6] will be put at 12th digit of type numbering system.

Standard Ratings

V(Code)		63 (1J)				100 (2A)			
Cap.(μF)	Item Code	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (Ω) MAX.		Rated ripple (mArms) 105°C / 100kHz
			20°C / 100kHz	-10°C / 100kHz			20°C / 100kHz	-10°C / 100kHz	
0.47	R47					5 × 11	43.0	86.0	20
1	010					5 × 11	20.0	40.0	30
2.2	2R2					5 × 11	9.80	19.6	44
3.3	3R3					5 × 11	6.60	13.2	58
4.7	4R7	5 × 11	4.70	9.40	68	5 × 11	4.60	9.20	74
6.8	6R8	5 × 11	2.50	5.00	95	5 × 11	3.50	7.00	95
		▲ 4 × 11	3.50	7.00	80				
10	100	5 × 11	2.10	4.20	110	6.3 × 11	1.80	3.60	130
12	120	5 × 11	2.00	4.00	145				
15	150	6.3 × 11	1.20	2.40	160	8 × 11.5	0.83	1.66	180
18	180	5 × 15	1.30	2.60	200	6.3 × 15	0.80	1.60	200
22	220	6.3 × 11	0.71	1.42	250	8 × 11.5	0.68	1.36	230
33	330	6.3 × 11	0.71	1.42	250	10 × 12.5	0.46	0.92	320
		▲ 8 × 15				0.45	0.90	360	
39	390	6.3 × 15	0.70	1.40	330				
47	470	8 × 11.5	0.342	0.684	405	10 × 16	0.37	0.74	420
		▲ 8 × 20				0.37	0.74	420	
68	680	8 × 11.5	0.342	0.684	405	10 × 20	0.30	0.60	490
82	820					10 × 25	0.25	0.50	540
100	101	10 × 12.5	0.256	0.512	540	12.5 × 20	0.18	0.36	580
		▲ 8 × 15	0.230	0.460	535				
120	121	10 × 16	0.194	0.388	600				
150	151	10 × 16	0.194	0.388	660	12.5 × 25	0.13	0.26	710
180	181	10 × 20	0.147	0.294	890	12.5 × 31.5	0.12	0.24	790
		▲ 12.5 × 15	0.150	0.300	1020	▲ 16 × 20	0.13	0.26	750
220	221	10 × 20	0.147	0.294	885	16 × 25	0.10	0.20	890
		▲ 10 × 25	0.130	0.260	1050	▲ 18 × 20	0.11	0.22	850
270	271	16 × 15	0.090	0.180	1410				
330	331	12.5 × 20	0.085	0.170	1290	16 × 25	0.090	0.18	1080
390	391	12.5 × 25	0.070	0.140	1720	18 × 25	0.083	0.166	1260
		▲ 18 × 15	0.086	0.172	1690				
470	471	12.5 × 25	0.070	0.140	1720	16 × 31.5	0.076	0.152	1310
		▲ 12.5 × 31.5	0.055	0.110	2090				
560	561	16 × 25	0.050	0.100	2160	18 × 31.5	0.068	0.136	1370
		▲ 12.5 × 35.5	0.047	0.094	2270				
680	681	18 × 20	0.055	0.110	2290	16 × 35.5	0.064	0.128	1410
		16 × 31.5	0.043	0.086	2670				
820	821	18 × 25	0.043	0.086	2590				
		▲ 18 × 25	0.043	0.086	2590				
1000	102	16 × 31.5	0.043	0.086	2770	18 × 40	0.047	0.094	1520
		▲ 16 × 35.5	0.036	0.072	2770				
1200	122	18 × 31.5	0.032	0.064	2950				
1500	152	18 × 35.5	0.030	0.060	3100				
2200	222	18 × 40	0.028	0.056	3200				

▲ : In this case, [6] will be put at 12th digit of type numbering system.

※ : In this case, [3] will be put at 12th digit of type numbering system.

V(Code)		160		200		250		315		350		400		450	
Cap. (μF)	Code	2C		2D		2E		2F		2V		2G		2W	
		0.47	R47	6.3 × 11	12	6.3 × 11	12	6.3 × 11	12	8 × 11.5	11	8 × 11.5	11		
1	010	6.3 × 11	17	6.3 × 11	17	6.3 × 11	17	8 × 11.5	16	10 × 12.5	17	10 × 12.5	16	10 × 12.5	18
2.2	2R2	6.3 × 11	25	6.3 × 11	25	8 × 11.5	29	10 × 12.5	28	10 × 16	31	10 × 16	27	10 × 20	29
3.3	3R3	8 × 11.5	36	8 × 11.5	36	10 × 12.5	42	10 × 12.5	34	10 × 16	38	10 × 20	36	12.5 × 20	41
4.7	4R7	8 × 11.5	43	10 × 12.5	50	10 × 12.5	50	10 × 16	45	10 × 20	49	10 × 20	43	12.5 × 20	49
10	100	10 × 12.5	70	10 × 16	80	10 × 20	88	10 × 20	72	12.5 × 20	82	12.5 × 25	72	16 × 25	75
22	220	10 × 20	130	10 × 20	140	12.5 × 25	155	12.5 × 25	120	16 × 25	130	16 × 25	110	16 × 31.5	115
33	330	12.5 × 20	180	12.5 × 25	190	12.5 × 25	190	16 × 25	155	16 × 31.5	160	16 × 31.5	140	● 18 × 35.5	145
47	470	12.5 × 25	220	12.5 × 25	220	16 × 25	230	16 × 35.5	190	● 18 × 35.5	200	● 18 × 35.5	170	20 × 40	175
100	101	16 × 25	330	16 × 31.5	335	● 18 × 35.5	340	▲ 18 × 40	285	20 × 40	290	22 × 50	350	25 × 50	350
220	221	● 18 × 35.5	500	▲ 18 × 40	515	20 × 40	525	22 × 50	540	25 × 50	550				
330	331	20 × 40	900	22 × 40	1100	22 × 50	1150								
470	471	22 × 50	1200	22 × 50	1310	25 × 50	1350								

※ Rated ripple current (mArms) at 105°C 120Hz

Size φ20 × 31 is available for capacitors marked " ● "

Size φ20 × 35 is available for capacitors marked " ▲ "

In this case, [6] will be put at 12th digit of type numbering system.



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.