

Metalized polypropylene film Capacitors

BMPL

Polypropylene metallized film with rectangular plastic box-type design, filled with resin and 2 or 4 tinned copper wires.

■ Features

- Controlled self-healing
- Low losses
- High capacitance density
- High contact reliability
- Suitable for high frequency applications

■ Applications

- DC link/ Dc ripple filter&Energy storage

■ Specifications

Reference Standard	IEC 61071, EN61071, VDE0560
Climatic Category	40 / 70 / 56
Rated Temperature	+70~85°C 1% / °C +85~105°C 1.5% / °C ±1.5% max on capacitance value measured at +20 °C
Operation Temperature Range	-40 to + 105 °C
Rated Voltage	450~1,500VDC
Capacitance Range(μF)	1μF – 210 μF
Capacitance Tolerance	±5%, ±10%
Dissipation Factor	≤ 0.0002 at 1kHz with T = 25°C ±5°C
Insulation Resistance	IR x C ≥ 10.000 seconds at 100 VDC 1 minute at T = +25°C ±5°C

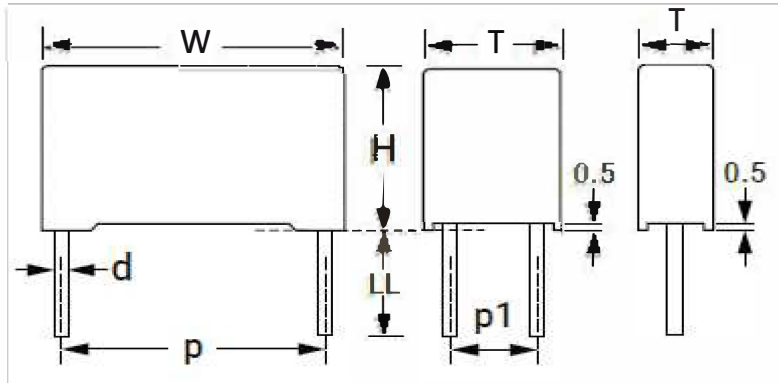
■ Part Number System

BMPL	450V	105	J	27.5	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name)-BMPL
Part-2 : Rated Voltage(450~1500VDC)
Part-3 : Rated Capacitance Value(1 μF – 210 μF / 105~216)
Part-4 : Capacitance Tolerance(J : ±5% K : ±10%)
Part-5 : Lead Spacing(27.5mm / 37.5mm/ 52.5mm)
Part-6 : Forming -Type and Packing code
Part-7 : Size Number (5~6 : Min-Type / 7 : Standard- Type / 8~15 : Large-Type)
Part-8 : Internal Use

CODE	STYLE
B	Bending Forming
C	Straight Cutting
D	D-Type Forming
L	B-Type long Forming
M	C-Type long Forming
S	Straight
X	B-Type Forming
Y	C-Type Forming
Z	Z-Type Forming
T	A-Type Tapping
U	B-Type Tapping
V	C-Type Tapping

■ Dimensions



Cap Value (μF)	VDC	Dimensions (mm)					dv/dt (V/μs)	IpkR	ESL	ESR	Irms*	Rth	PART NUMBER
										70°C at 10 kHz	70°C at 10 kHz	(HS/Amb)	
		W	H	T	P	P1		Apk	nH	mΩ	Arms	(°C/W)	
5.6	450	31.5	20	11	27.5	10.2	10	54	25	13.1	4.5	44	BMPL450V565J27.5S5_
10	450	31.5	25	13	27.5	10.2	10	96	25	8.1	6.5	36	BMPL450V106J27.5S5_
12.5	450	31.5	28	14	27.5	10.2	10	122	26	6.8	7.5	33	BMPL450V126J27.5S5_
15	450	31.5	29	19	27.5	10.2	10	147	26	6	8.5	29	BMPL450V156J27.5S5_
25	450	31.5	37	22	27.5	10.2	10	245	28	4.5	11.5	23	BMPL450V256J27.5S5_
40	450	42	40	20	37.5	10.2	7	262	30	3.5	13.5	20	BMPL450V406J37.5S5_
50	450	42	37	28	37.5	10.2	7	332	30	2.8	16	18	BMPL450V506J37.5S5_
70	450	42	45	30	37.5	20.3	7	464	30	2.1	20.5	15	BMPL450V706J37.5S5_
100	450	57.5	45	30	52.5	20.3	4	442	35	3	19	12	BMPL450V107J52.5S5_
130	450	57.5	50	35	52.5	20.3	4	581	35	2.4	23	10	BMP5450V137J52.5S5_
5.6	500	31.5	20	11	27.5	10.2	10	54	25	13.1	4.5	44	BMPL500V565J27.5S5_
10	500	31.5	25	13	27.5	10.2	10	96	25	8.1	6.5	36	BMPL500V106J27.5S5_
12.5	500	31.5	28	14	27.5	10.2	10	122	26	6.8	7.5	33	BMPL500V126J27.5S5_
15	500	31.5	29	19	27.5	10.2	10	147	26	6	8.5	29	BMPL500V156J27.5S5_
25	500	31.5	37	22	27.5	10.2	10	245	28	4.5	11.5	23	BMPL500V256J27.5S5_
40	500	42	40	20	37.5	10.2	7	262	30	3.5	13.5	20	BMPL500V406J37.5S5_
50	500	42	37	28	37.5	10.2	7	332	30	2.8	16	18	BMPL500V506J37.5S5_
70	500	42	45	30	37.5	20.3	7	464	30	2.1	20.5	15	BMPL500V706J37.5S5_
90	500	42	50	35	37.5	20.3	7	585	35	1.5	26	13	BMPL500V906J37.5S5_
100	500	57.5	45	30	52.5	20.3	4	442	35	3	19	12	BMPL500V107J52.5S5_
130	500	57.5	50	35	52.5	20.3	4	581	35	2.4	23	10	BMPL500V137J52.5S5_
170	500	57.5	56	45	52.5	20.3	4	780	41	1.8	29.5	8	BMPL500V177J52.5S5_
210	500	57.5	65	45	52.5	20.3	4	840	45	1.4	35.5	7	BMPL500V217J52.5S5_
3.3	600	31.5	20	11	27.5	10.2	13	41	25	17	4	44	BMPL600V335J27.5S5_
5.6	600	31.5	25	13	27.5	10.2	13	71	25	10.7	6	36	BMPL600V565J27.5S5_
7	600	31.5	28	14	27.5	10.2	13	88	26	9	7	33	BMPL600V705J27.5S5_
10	600	31.5	29	19	27.5	10.2	13	127	26	6.8	8.5	29	BMPL600V106J27.5S5_
15	600	31.5	37	22	27.5	10.2	13	190	28	5.3	10.5	23	BMPL600V156J27.5S5_
20	600	42	40	20	37.5	10.2	9	172	30	5.3	11	20	BMPL600V206J37.5S5_
30	600	42	37	28	37.5	10.2	9	255	30	3.6	14	18	BMPL600V306J37.5S5_
40	600	42	45	30	37.5	20.3	9	344	30	2.8	18	15	BMPL600V406J37.5S5_
55	600	57.5	45	30	52.5	20.3	6	319	35	4.1	16.5	12	BMPL600V556J52.5S5_
75	600	57.5	50	35	52.5	20.3	6	435	35	3.1	20.5	10	BMPL600V756J52.5S5_

Metallized polypropylene film Capacitors

Cap Value (μF)	VDC	Dimensions (mm)					dV/dt (V/μs)	Ipkr	ESL	ESR		Irms*	Rth	PART NUMBER
										70°C at 10 kHz	70°C at 10 kHz	(HS/Amb)		
		W	H	T	P	P1				mΩ	Arms	(°C/W)		
3.3	650	31.5	20	11	27.5	↘	13	41	25	17	4	44	BMPL650V335J27.5S5_	
5.6	650	31.5	25	13	27.5	↘	13	71	25	10.7	6	36	BMPL650V565J27.5S5_	
7	650	31.5	28	14	27.5	↘	13	88	26	9	7	33	BMPL650V705J27.5S5_	
10	650	31.5	29	19	27.5	↘	13	127	26	6.8	8.5	29	BMPL650V106J27.5S5_	
15	650	31.5	37	22	27.5	↘	13	190	28	5.3	10.5	23	BMPL650V156J27.5S5_	
20	650	42	40	20	37.5	10.2	9	172	30	5.3	11	20	BMPL650V206J37.5S5_	
30	650	42	37	28	37.5	10.2	9	255	30	3.6	14	18	BMPL650V306J37.5S5_	
40	650	42	45	30	37.5	20.3	9	344	30	2.8	18	15	BMPL650V406J37.5S5_	
50	650	42	50	35	37.5	20.3	9	430	35	2	22.5	13	BMPL650V506J37.5S5_	
55	650	57.5	45	30	52.5	20.3	6	319	35	4.1	16.5	12	BMPL650V556J52.5S5_	
75	650	57.5	50	35	52.5	20.3	6	435	35	3.1	20.5	10	BMPL650V756J52.5S5_	
110	650	57.5	56	45	52.5	20.3	6	625	41	2.2	27	8	BMPL650V117J52.5S5_	
130	650	57.5	65	45	52.5	20.3	6	754	45	1.7	32	7	BMPL650V137J52.5S5_	
2.7	700	31.5	20	11	27.5	↘	19	51	25	18.3	4	44	BMPL700V275J27.5S5_	
4	700	31.5	25	13	27.5	↘	19	77	25	12.9	5.5	36	BMPL700V405J27.5S5_	
5	700	31.5	28	14	27.5	↘	19	96	26	10.7	6	33	BMPL700V505J27.5S5_	
8	700	31.5	29	19	27.5	↘	19	154	26	7.3	8	29	BMPL700V805J27.5S5_	
12.5	700	31.5	37	22	27.5	↘	19	241	28	5.5	10	23	BMPL700V126J27.5S5_	
15	700	42	40	20	37.5	5.1	13	196	30	6.2	10	20	BMPL700V156J37.5S5_	
15	700	42	40	20	37.5	10.2	13	196	30	6.2	10	20	BMPL700V156J37.5S5_	
20	700	42	37	28	37.5	10.2	13	262	30	4.7	12.5	18	BMPL700V206J37.5S5_	
30	700	42	45	30	37.5	20.3	13	389	30	3.2	16.5	15	BMPL700V306J37.5S5_	
45	700	57.5	45	30	52.5	20.3	9	389	35	4.4	16	12	BMPL700V456J52.5S5_	
55	700	57.5	50	35	52.5	20.3	9	485	35	3.6	19	10	BMPL700V556J52.5S5_	
60	700	57.5	50	35	52.5	20.3	9	530	35	3.4	19.5	10	BMPL700V606J52.5S5_	
2.7	800	31.5	20	11	27.5	↘	19	51	25	18.3	4	44	BMPL800V275J27.5S5_	
4	800	31.5	25	13	27.5	↘	19	77	25	12.9	5.5	36	BMPL800V405J27.5S5_	
5	800	31.5	28	14	27.5	↘	19	96	26	10.7	6	33	BMPL800V505J27.5S5_	
8	800	31.5	29	19	27.5	↘	19	154	26	7.3	8	29	BMPL800V805J27.5S5_	
12.5	800	31.5	37	22	27.5	↘	19	241	28	5.5	10	23	BMPL800V126J27.5S5_	
15	800	42	40	20	37.5	5.1	13	196	30	6.2	10	20	BMPL800V156J37.5S5_	
15	800	42	40	20	37.5	10.2	13	196	30	6.2	10	20	BMPL800V156J37.5S5_	
20	800	42	37	28	37.5	10.2	13	262	30	4.7	12.5	18	BMPL800V206J37.5S5_	
30	800	42	45	30	37.5	20.3	13	389	30	3.2	16.5	15	BMPL800V306J37.5S5_	
40	800	42	50	35	37.5	20.3	13	524	35	2.2	21.5	13	BMPL800V406J37.5S5_	
45	800	57.5	45	30	52.5	20.3	9	389	35	4.4	16	12	BMPL800V456J52.5S5_	
55	800	57.5	50	35	52.5	20.3	9	485	35	3.6	19	10	BMPL800V556J52.5S5_	
60	800	57.5	50	35	52.5	20.3	9	530	35	3.4	19.5	10	BMPL800V606J52.5S5_	
85	800	57.5	56	45	52.5	20.3	9	728	41	2.5	25.5	8	BMPL800V856J52.5S5_	
100	800	57.5	65	45	52.5	20.3	9	883	45	1.9	30.5	7	BMPL800V107J52.5S5_	
1.5	900	31.5	20	11	27.5	↘	24	36	25	26.3	3.5	44	BMPL900V155J27.5S5_	
2.7	900	31.5	25	13	27.5	↘	24	65	25	15.3	5	36	BMPL900V275J27.5S5_	
3.3	900	31.5	28	14	27.5	↘	24	79	26	12.9	5.5	33	BMPL900V335J27.5S5_	
5	900	31.5	29	19	27.5	↘	24	120	26	9.1	7	29	BMPL900V505J27.5S5_	
8	900	31.5	37	22	27.5	10.2	24	193	28	6.6	9.5	23	BMPL900V805J27.5S5_	
12	900	42	40	20	37.5	10.2	16	190	30	6.3	10	20	BMPL900V126J37.5S5_	
14	900	42	37	28	37.5	20.3	16	229	30	5.4	11.5	18	BMPL900V146J37.5S5_	
20	900	42	45	30	37.5	20.3	16	321	30	3.9	15	15	BMPL900V206J37.5S5_	
30	900	57.5	45	30	52.5	20.3	11	324	35	5.2	15	12	BMPL900V306J52.5S5_	
40	900	57.5	50	35	52.5	20.3	11	428	35	4	18	10	BMPL900V406J52.5S5_	

Cap Value (μF)	VDC	Dimensions (mm)					dV/dt (V/μs)	Ipkr	ESL	ESR	Irms*	Rth	PART NUMBER
										70°C at 10 kHz	70°C at 10 kHz	(HS/Amb)	
		W	H	T	P	P1				mΩ	Arms	(°C/W)	
1.5	1100	31.5	20	11	27.5	\	24	36	25	26.3	3.5	44	BMPL7700V755J27.5S5_
2.7	1100	31.5	25	13	27.5	\	24	65	25	15.3	5	36	BMPL7700V275J27.5S5_
3.3	1100	31.5	28	14	27.5	\	24	79	26	12.9	5.5	33	BMPL7700V335J27.5S5_
5	1100	31.5	29	19	27.5	\	24	120	26	9.1	7	29	BMPL7700V505J27.5S5_
8	1100	31.5	37	22	27.5	\	24	193	28	6.6	9.5	23	BMPL7700V805J27.5S5_
12	1100	42	40	20	37.5	10.2	16	190	30	6.3	10	20	BMPL7700V726J37.5S5_
14	1100	42	37	28	37.5	10.2	16	229	30	5.4	11.5	18	BMPL7700V746J37.5S5_
20	1100	42	45	30	37.5	20.3	16	321	30	3.9	15	15	BMPL7700V206J37.5S5_
25	1100	42	50	35	37.5	20.3	16	409	35	2.8	19	13	BMPL7700V256J37.5S5_
30	1100	57.5	45	30	52.5	20.3	11	324	35	5.2	15	12	BMPL7700V306J52.5S5_
40	1100	57.5	50	35	52.5	20.3	11	428	35	4	18	10	BMPL7700V406J52.5S5_
55	1100	57.5	56	45	52.5	20.3	11	595	41	2.6	24.5	8	BMPL7700V556J52.5S5_
65	1100	57.5	65	45	52.5	20.3	11	717	45	2.3	28	7	BMPL7700V656J52.5S5_
1	1300	31.5	20	11	27.5	\	28	28	25	33.1	3	44	BMPL7300V705J27.5S5_
1.8	1300	31.5	25	13	27.5	\	29	52	25	19.1	4.5	36	BMPL7300V785J27.5S5_
2.2	1300	31.5	28	14	27.5	\	29	63	26	16	5	33	BMPL7300V225J27.5S5_
3.3	1300	31.5	29	19	27.5	\	29	95	26	11.2	6.5	29	BMPL7300V335J27.5S5_
5	1300	31.5	37	22	27.5	\	29	145	28	8.2	8.5	23	BMPL7300V505J27.5S5_
8	1300	42	40	20	37.5	10.2	20	157	30	7.9	9	20	BMPL7300V805J37.5S5_
10	1300	42	37	28	37.5	10.2	20	196	30	6.3	11	18	BMPL7300V706J37.5S5_
12	1300	42	45	30	37.5	20.3	20	235	30	5.3	13	15	BMPL7300V726J37.5S5_
18	1300	42	50	35	37.5	20.3	19	350	35	3.2	18	13	BMPL7300V786J37.5S5_
20	1300	57.5	45	30	52.5	20.3	13	262	35	6.5	13	12	BMPL7300V206J52.5S5_
25	1300	57.5	50	35	52.5	20.3	13	331	35	5.2	16	10	BMPL7300V256J52.5S5_
27	1300	57.5	50	35	52.5	20.3	13	354	35	4.9	16.5	10	BMPL7300V276J52.5S5_
38	1300	57.5	56	45	52.5	20.3	13	498	41	3.1	22.5	8	BMPL7300V386J52.5S5_
45	1300	57.5	65	45	52.5	20.3	13	596	45	2.7	26	7	BMPL7300V456J52.5S5_
1	1500	31.5	20	11	27.5	\	31	31	24	25.7	3.5	44	BMPL7500V705J27.5S5_
1.5	1500	31.5	25	13	27.5	\	31	49	25	17.7	4.5	36	BMPL7500V755J27.5S5_
2	1500	31.5	28	14	27.5	\	32	65	26	14.1	5.5	33	BMPL7500V205J27.5S5_
3	1500	31.5	29	19	27.5	\	32	95	26	9.7	7	29	BMPL7500V305J27.5S5_
4.5	1500	31.5	37	22	27.5	\	33	148	28	7.3	9	23	BMPL7500V455J27.5S5_
6	1500	42	40	20	37.5	10.2	22	132	30	8	9	20	BMPL7500V605J37.5S5_
8	1500	42	37	28	37.5	10.2	22	176	30	6	11	18	BMPL7500V805J37.5S5_
12	1500	42	45	30	37.5	20.3	22	256	33	4.1	14.5	15	BMPL7500V725J37.5S5_
15	1500	42	50	35	37.5	20.3	22	326	35	3.5	17.5	13	BMPL7500V755J37.5S5_
17	1500	57.5	45	30	52.5	20.3	14	236	35	5.9	13.5	12	BMPL7500V775J52.5S5_
22	1500	57.5	50	35	52.5	20.3	14	308	38	4.6	17	10	BMPL7500V225J52.5S5_
32	1500	57.5	56	45	52.5	20.3	14	460	41	3.4	22	8	BMPL7500V325J52.5S5_
40	1500	57.5	65	45	52.5	20.3	14	562	45	2.8	25	7	BMPL7500V405J52.5S5_