

**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**Applications**

- AC or DC Voltages
- Professional Applications
- Small Motors
- Coupling / decoupling, Audio
- Instrumentation

**Main Characteristics**

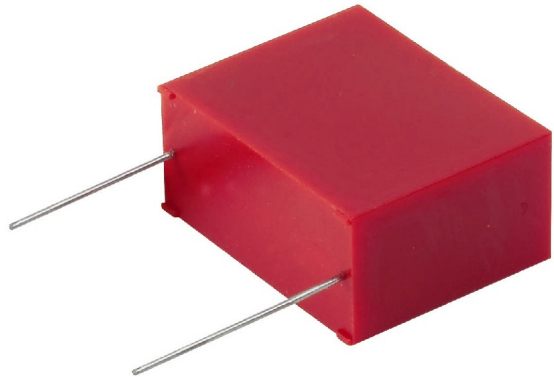
- Dry plastic film technology
- Nominal Voltage: 160 VDC to 1000 VDC
- Climatic Category: 40/100/56
- Tolerances  $\pm 10\%$   
on request:  $\pm 5\%$ ,  $\pm 2\%$ ,  $\pm 1\%$

**Design**

- Metallized polypropylene film
- Self-extinguishing plastic housing
- Radial tinned copper leads
- Epoxy resin end-seal (UL-V0)

**Mounting**

- Indifferent positioning



**PPM.. g**

**1.0 Rated Values and Operational Data**

DC	Nominal Voltage $U_N$	$\leq 85^\circ\text{C}$	160	250	400	500	630	1000
	Category Voltage $U_C$	$\leq 100^\circ\text{C}$	130	200	320	400	500	800
	Test Voltage $U_T$	2s, $23^\circ\text{C}$	260	400	640	800	1200	1640
	Maximum admissible surge voltage $[\hat{V}]$				800	1200	3000	4000
AC	Nominal Voltage $U_N$ - $f \leq 400$ Hz compliant ASE 1029 / VDE 0560 f 50 Hz	$\leq 85^\circ\text{C}$	100	180	230	300	400	500
		$\leq 70^\circ\text{C}$	110 (125)	200	250 (280)	330	440 (480)	550 (630)
	Category Voltage $U_C$	$\leq 100^\circ\text{C}$	100	180	230	300	400	500

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**2.0 Capacitance range**

Cn =>	10.0 nF					0.82 µF	2.2 µF	5.6 µF	10 µF	22 µF
160 VDC										
250 VDC										
400 VDC										
500 VDC										
630 VDC										
1000 VDC										

**3.0 Characteristics**

			Min	Typ	Min
Dissipation factor	tg δ	C ≤ 0.1 µF		3 ... 7	10 x 10 <sup>-4</sup>
	f = 10 kHz	C ≤ 1.0 µF		5 ... 8	20 x
		C ≤ 10 µF		15 ... 25	50 x
Insulation resistance	R <sub>i</sub> [MOhms]	100 V, 1min, 23°C, C ≤ 033 µF	1.0 x 10 <sup>5</sup>		
Time Constant	R <sub>i</sub> C [s]	100 V, 1 min, 23°C C > 033 µF	30000		
Temperature coefficient	α <sub>c</sub>	-30 ... + 80°C [ppm / °C]	-320	-200	-80
Long term Stability	ΔC / C [%]	23°C, 50% HR		± 0.5	

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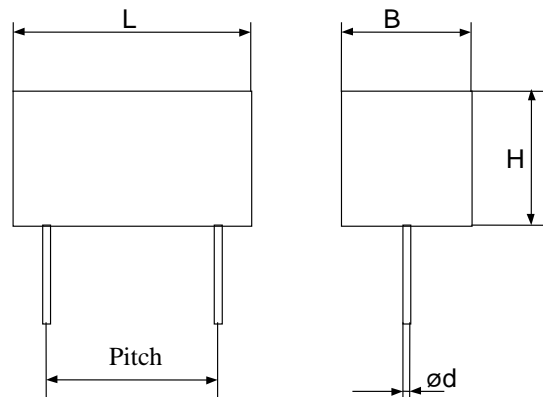
**Type PPM ... g**

**4.0 Usage Limits**

4.1 Limits of standard current

L [mm]	RM [mm]	Nominal Voltage [VDC]					
		160	250	400	500	630	1000
7.5	5	85	120				
10	7.5	85	120	180			
13	10	85	120	180	250		
18	15	85	120	180	250	360	600
26.5	22.5	50	80	120	170	190	320
31.5	27.5	40	60	90	130	130	230
42	37.5	20	40	50	90	90	130
(du/dt) <sub>N</sub> in V/μs							

**5.0 Dimensions, shape :**



L [mm]	7.5	10	13	18	26.5	42
Pitch [mm]	5.0	7.5	10	15	22.5	37.5
Housing	... gb	... ga	... g			

ø d [mm]	
0.6	B ≤ 4 mm
0.8	B > 4 mm
1.0	RM 37.5 mm

The capacitors are delivered in bulk.

On special request we can deliver tape-mounted.

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**METALLIZED POLYPROPYLENE CAPACITORS**

Type PPM ... g

**PPM ... g 160 VDC**

B4F2 Pos.	Type	Cn [μF]	Dimensions						dU / dt max [V / μs]	î s [A]
			Case	B [mm]	H [mm]	L [mm]	∅ lead [mm]	Pitch [mm]		
1	PPM 16-110 g K *	0.010	A	3.5	8.5	7.5	0.5	5.00	85	1
2	PPM 16-112 g K *	0.012	A	3.5	8.5	7.5	0.5	5.00	85	2
3	PPM 16-115 g K *	0.015	A	3.5	8.5	7.5	0.5	5.00	85	2
4	PPM 16-118 g K *	0.018	C	4.0	9.0	10.0	0.6	7.50	85	2
5	PPM 16-122 g K *	0.022	C	4.0	9.0	10.0	0.6	7.50	85	2
6	PPM 16-127 g K *	0.027	C	4.0	9.0	10.0	0.6	7.50	85	3
7	PPM 16-133 g K *	0.033	C	4.0	9.0	10.0	0.6	7.50	85	3
8	PPM 16-139 g K *	0.039	C	4.0	9.0	10.0	0.6	7.50	85	4
9	PPM 16-147 g K *	0.047	C	4.0	9.0	10.0	0.6	7.50	85	4
10	PPM 16-156 g K	0.056	D	3.5	8.5	13.0	0.6	10.00	85	5
11	PPM 16-168 g K	0.068	E	4.0	9.0	13.0	0.6	10.00	85	6
12	PPM 16-182 g K	0.082	F	5.0	10.5	13.0	0.8	10.00	85	7
13	PPM 16-010 g K	0.10	F	5.0	10.5	13.0	0.8	10.00	85	9
14	PPM 16-012 g K	0.12	G	6.0	11.5	13.0	0.8	10.00	85	11
15	PPM 16-015 g K	0.15	G	6.0	11.5	13.0	0.8	10.00	85	13
16	PPM 16-018 g K	0.18	H	5.5	11.0	18.0	0.8	15.00	85	16
17	PPM 16-022 g K	0.22	H	5.5	11.0	18.0	0.8	15.00	85	19
18	PPM 16-027 g K	0.27	H	5.5	11.0	18.0	0.8	15.00	85	23
19	PPM 16-033 g K	0.33	I	6.5	12.5	18.0	0.8	15.00	85	29
20	PPM 16-039 g K	0.39	I	6.5	12.5	18.0	0.8	15.00	85	34
21	PPM 16-047 g K	0.47	J	8.5	14.5	18.0	0.8	15.00	85	40
22	PPM 16-056 g K	0.56	J	8.5	14.5	18.0	0.8	15.00	85	48
23	PPM 16-068 g K	0.68	K	7.0	15.5	26.5	0.8	22.50	50	34
24	PPM 16-082 g K	0.82	K	7.0	15.5	26.5	0.8	22.50	50	41
25	PPM 16-1.0 g K	1.00	L	8.5	18.0	26.5	0.8	22.50	50	50
26	PPM 16-1.2 g K	1.20	L	8.5	18.0	26.5	0.8	22.50	50	60
27	PPM 16-1.5 g K	1.50	M	10.5	19.0	26.5	0.8	22.50	50	75
28	PPM 16-1.8 g K	1.80	M	10.5	19.0	26.5	0.8	22.50	50	90
29	PPM 16-2.2 g K	2.20	N	11.5	20.5	31.5	0.8	27.50	40	88
30	PPM 16-2.7 g K	2.70	N	11.5	20.5	31.5	0.8	27.50	40	108
31	PPM 16-3.3 g K	3.30	O	14.0	24.0	31.5	0.8	27.50	40	132
32	PPM 16-3.9 g K	3.90	O	14.0	24.0	31.5	0.8	27.50	40	156
33	PPM 16-4.7 g K	4.70	O	14.0	24.0	31.5	0.8	27.50	40	188
34	PPM 16-5.6 g K **	5.60	P	18.0	27.5	31.5	0.8	27.50	40	224
35	PPM 16-6.8 g K **	6.80	P	18.0	27.5	31.5	0.8	27.50	40	272
36	PPM 16-8.2 g K **	8.20	Q	18.0	29.0	42.0	1.0	37.50	20	164
37	PPM 16-10 g K **	10.00	Q	18.0	29.0	42.0	1.0	37.50	20	200
38	PPM 16-12 g K	12.00	R	20.0	33.5	42.0	1.0	37.50	20	240
39	PPM 16-15 g K	15.00	R	20.0	33.5	42.0	1.0	37.50	20	300
40	PPM 16-18 g K **	18.00	S	25.0	40.0	42.0	1.0	37.50	20	360
41	PPM 16-22 g K **	22.00	S	25.0	40.0	42.0	1.0	37.50	20	440

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**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**PPM ... g 250 VDC**

B4F2	Type	Cn	Dimensions							dU / dt max	î s
			Pos.	[µF]	Case	B [mm]	H [mm]	L [mm]	ø lead [mm]		
1	PPM 25-110 g K *	0.010	B	4.5	9.5	7.5	0.5	5.00	120	2	
2	PPM 25-112 g K *	0.012	B	4.5	9.5	7.5	0.5	5.00	120	2	
3	PPM 25-115 g K *	0.015	C	4.0	9.0	10.0	0.6	7.50	120	2	
4	PPM 25-118 g K *	0.018	C	4.0	9.0	10.0	0.6	7.50	120	3	
5	PPM 25-122 g K *	0.022	E	4.0	9.0	13.0	0.6	10.00	120	3	
6	PPM 25-127 g K	0.027	E	4.0	9.0	13.0	0.6	10.00	120	4	
7	PPM 25-133 g K	0.033	F	5.0	10.5	13.0	0.8	10.00	120	4	
8	PPM 25-139 g K	0.039	F	5.0	10.5	13.0	0.8	10.00	120	5	
9	PPM 25-147 g K	0.047	F	5.0	10.5	13.0	0.8	10.00	120	6	
10	PPM 25-156 g K	0.056	G	6.0	11.5	13.0	0.8	10.00	120	7	
11	PPM 25-168 g K	0.068	G	6.0	11.5	13.0	0.8	10.00	120	9	
12	PPM 25-182 g K	0.082	H	5.5	11.0	18.0	0.8	15.00	120	10	
13	PPM 25-010 g K	0.10	H	5.5	11.0	18.0	0.8	15.00	120	12	
14	PPM 25-012 g K	0.12	I	6.5	12.5	18.0	0.8	15.00	120	15	
15	PPM 25-015 g K	0.15	I	6.5	12.5	18.0	0.8	15.00	120	18	
16	PPM 25-018 g K	0.18	J	8.5	14.5	18.0	0.8	15.00	120	22	
17	PPM 25-022 g K	0.22	J	8.5	14.5	18.0	0.8	15.00	120	27	
18	PPM 25-027 g K	0.27	J	8.5	14.5	18.0	0.8	15.00	120	33	
19	PPM 25-033 g K	0.33	K	7.0	15.5	26.5	0.8	22.50	80	27	
20	PPM 25-039 g K	0.39	K	7.0	15.5	26.5	0.8	22.50	80	32	
21	PPM 25-047 g K	0.47	L	8.5	18.0	26.5	0.8	22.50	80	38	
22	PPM 25-056 g K	0.56	L	8.5	18.0	26.5	0.8	22.50	80	45	
23	PPM 25-068 g K	0.68	M	10.5	19.0	26.5	0.8	22.50	80	55	
24	PPM 25-082 g K	0.82	M	10.5	19.0	26.5	0.8	22.50	80	66	
25	PPM 25-1.0 g K	1.00	N	11.5	20.5	31.5	0.8	27.50	60	60	
26	PPM 25-1.2 g K	1.20	N	11.5	20.5	31.5	0.8	27.50	60	72	
27	PPM 25-1.5 g K	1.50	O	14.0	24.0	31.5	0.8	27.50	60	90	
28	PPM 25-1.8 g K	1.80	O	14.0	24.0	31.5	0.8	27.50	60	108	
29	PPM 25-2.2 g K	2.20	O	14.0	24.0	31.5	0.8	27.50	60	132	
30	PPM 25-2.7 g K **	2.70	P	18.0	27.5	31.5	0.8	27.50	60	162	
31	PPM 25-3.3 g K **	3.30	P	18.0	27.5	31.5	0.8	27.50	60	198	
32	PPM 25-3.9 g K **	3.90	Q	18.0	29.0	42.0	1.0	37.50	40	156	
33	PPM 25-4.7 g K **	4.70	Q	18.0	29.0	42.0	1.0	37.50	40	188	
34	PPM 25-5.6 g k	5.60	R	20.0	33.5	42.0	1.0	37.50	40	224	
35	PPM 25-6.8 g K	6.80	R	20.0	33.5	42.0	1.0	37.50	40	272	
36	PPM 25-8.2 g K **	8.20	S	25.0	40.0	42.0	1.0	37.50	40	328	
37	PPM 25-10 g K **	10.00	S	25.0	40.0	42.0	1.0	37.50	40	400	

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**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**PPM ... g 400 VDC**

B4F2 Pos.	Type	Cn [μF]	Dimensions						dU / dt max [V / μs]	î s [A]
			Case	B [mm]	H [mm]	L [mm]	∅ lead [mm]	Pitch [mm]		
1	PPM 40-110 g K *	0.010	C	4.0	9.0	10.0	0.6	7.50	180	2
2	PPM 40-112 g K	0.012	D	3.5	8.5	13.0	0.6	10.00	180	3
3	PPM 40-115 g K	0.015	E	4.0	9.0	13.0	0.6	10.00	180	3
4	PPM 40-118 g K	0.018	E	4.0	9.0	13.0	0.6	10.00	180	4
5	PPM 40-122 g K	0.022	F	5.0	10.5	13.0	0.8	10.00	180	4
6	PPM 40-127 g K	0.027	F	5.0	10.5	13.0	0.8	10.00	180	5
7	PPM 40-133 g K	0.033	G	6.0	11.5	13.0	0.8	10.00	180	6
8	PPM 40-139 g K	0.039	G	6.0	11.5	13.0	0.8	10.00	180	8
9	PPM 40-147 g K	0.047	G	6.0	11.5	13.0	0.8	10.00	180	9
10	PPM 40-156 g K	0.056	H	5.5	11.0	18.0	0.8	15.00	180	11
11	PPM 40-168 g K	0.068	H	5.5	11.0	18.0	0.8	15.00	180	13
12	PPM 40-182 g K	0.082	I	6.5	12.5	18.0	0.8	15.00	180	15
13	PPM 40-010 g K	0.10	I	6.5	12.5	18.0	0.8	15.00	180	18
14	PPM 40-012 g K	0.12	J	8.5	14.5	18.0	0.8	15.00	180	22
15	PPM 40-015 g K	0.15	J	8.5	14.5	18.0	0.8	15.00	180	27
16	PPM 40-018 g K	0.18	K	7.0	15.5	26.5	0.8	22.50	120	22
17	PPM 40-022 g K	0.22	K	7.0	15.5	26.5	0.8	22.50	120	27
18	PPM 40-027 g K	0.27	L	8.5	18.0	26.5	0.8	22.50	120	33
19	PPM 40-033 g K	0.33	L	8.5	18.0	26.5	0.8	22.50	120	40
20	PPM 40-039 g K	0.39	M	10.5	19.0	26.5	0.8	22.50	120	47
21	PPM 40-047 g K	0.47	M	10.5	19.0	26.5	0.8	22.50	120	57
22	PPM 40-056 g K	0.56	N	11.5	20.5	31.5	0.8	27.50	90	51
23	PPM 40-068 g K	0.68	N	11.5	20.5	31.5	0.8	27.50	90	62
24	PPM 40-082 g K	0.82	O	14.0	24.0	31.5	0.8	27.50	90	74
25	PPM 40-1.0 g K	1.00	O	14.0	24.0	31.5	0.8	27.50	90	90
26	PPM 40-1.2 g K	1.20	O	14.0	24.0	31.5	0.8	27.50	90	108
27	PPM 40-1.5 g K **	1.50	P	18.0	27.5	31.5	0.8	27.50	90	135
28	PPM 40-1.8 g K **	1.80	P	18.0	27.5	31.5	0.8	27.50	90	162
29	PPM 40-2.2 g K **	2.20	Q	18.0	29.0	42.0	1.0	37.50	50	110
30	PPM 40-2.7 g K **	2.70	Q	18.0	29.0	42.0	1.0	37.50	50	135
31	PPM 40-3.3 g K	3.30	R	20.0	33.5	42.0	1.0	37.50	50	165
32	PPM 40-3.9 g K **	3.90	S	25.0	40.0	42.0	1.0	37.50	50	195
33	PPM 40 4.7 g K **	4.70	S	25.0	40.0	42.0	1.0	37.50	50	235
34	PPM 40-5.6 g K **	5.60	S	25.0	40.0	42.0	1.0	37.50	50	280

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**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**PPM ... g 500 VDC**

B4F2 Pos.	Type	Cn [μF]	Dimensions						dU / dt max [V / μs]	î s [A]	
			Bac	B [mm]	H [mm]	L [mm]	ø lead [mm]	Pitch[mm]			
1	PPM 50-110 g K	0.010	F	5.0	10.5	13.0	0.8	10.00	250	3	
2	PPM 50-112 g K	0.012	F	5.0	10.5	13.0	0.8	10.00	250	3	
3	PPM 50-115 g K	0.015	G	6.0	11.5	13.0	0.8	10.00	250	4	
4	PPM 50-118 g K	0.018	G	6.0	11.5	13.0	0.8	10.00	250	5	
5	PPM 50-122 g K	0.022	H	5.5	11.0	18.0	0.8	15.00	250	6	
6	PPM 50-127 g K	0.027	H	5.5	11.0	18.0	0.8	15.00	250	7	
7	PPM 50-133 g K	0.033	I	6.5	12.5	18.0	0.8	15.00	250	9	
8	PPM 50-139 g K	0.039	I	6.5	12.5	18.0	0.8	15.00	250	10	
9	PPM 50-147 g K	0.047	J	8.5	14.5	18.0	0.8	15.00	250	12	
10	PPM 50-156 g K	0.056	J	8.5	14.5	18.0	0.8	15.00	250	14	
11	PPM 50-168 g K	0.068	J	8.5	14.5	18.0	0.8	15.00	250	17	
12	PPM 50-182 g K	0.082	K	7.0	15.5	26.5	0.8	22.50	170	14	
13	PPM 50-010 g K	0.10	K	7.0	15.5	26.5	0.8	22.50	170	17	
14	PPM 50-012 g K	0.12	L	8.5	18.0	26.5	0.8	22.50	170	21	
15	PPM 50-015 g K	0.15	L	8.5	18.0	26.5	0.8	22.50	170	26	
16	PPM 50-018 g K	0.18	M	10.5	19.0	26.5	0.8	22.50	170	31	
17	PPM 50-022 g K	0.22	M	10.5	19.0	26.5	0.8	22.50	170	38	
18	PPM 50-027 g K	0.27	N	11.5	20.5	31.5	0.8	27.50	130	36	
19	PPM 50-033 g K	0.33	N	11.5	20.5	31.5	0.8	27.50	130	43	
20	PPM 50-039 g K	0.39	O	14.0	24.0	31.5	0.8	27.50	130	51	
21	PPM 50-047 g K	0.47	O	14.0	24.0	31.5	0.8	27.50	130	62	
22	PPM 50-056 g K	0.56	O	14.0	24.0	31.5	0.8	27.50	130	73	
23	PPM 50-068 g K	**	0.68	P	18.0	27.5	31.5	0.8	27.50	130	89
24	PPM 50-082 g K	**	0.82	P	18.0	27.5	31.5	0.8	27.50	130	107
25	PPM 50-1.0 g K	**	1.00	Q	18.0	29.0	42.0	1.0	37.50	90	90
26	PPM 50-1.2 g K	**	1.20	Q	18.0	29.0	42.0	1.0	37.50	90	108
27	PPM 50-1.5 g K		1.50	R	20.0	33.5	42.0	1.0	37.50	90	135
28	PPM 50-1.8 g K	**	1.80	S	25.0	40.0	42.0	1.0	37.50	90	162
29	PPM 50-2.2 g K	**	2.20	S	25.0	40.0	42.0	1.0	37.50	90	198

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**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**PPM ... g 630 VDC**

B4F2 Pos.	Type	Cn [μF]	Dimensions						dU / dt max [V / μs]	î s [A]
			Case	B [mm]	H [mm]	L [mm]	∅ lead [mm]	Pitch [mm]		
1	PPM 63-110 g K	0.010	H	5.5	11.0	18.0	0.8	15.00	360	4
2	PPM 63-112 g K	0.012	H	5.5	11.0	18.0	0.8	15.00	360	5
3	PPM 63-115 g K	0.015	H	5.5	11.0	18.0	0.8	15.00	360	6
4	PPM 63-118 g K	0.018	H	5.5	11.0	18.0	0.8	15.00	360	7
5	PPM 63-122 g K	0.022	I	6.5	12.5	18.0	0.8	15.00	360	8
6	PPM 63-127 g K	0.027	I	6.5	12.5	18.0	0.8	15.00	360	10
7	PPM 63-133 g K	0.033	J	8.5	14.5	18.0	0.8	15.00	360	12
8	PPM 63-139 g K	0.039	J	8.5	14.5	18.0	0.8	15.00	360	15
9	PPM 63-147 g K	0.047	J	8.5	14.5	18.0	0.8	15.00	360	17
10	PPM 63-156 g K	0.056	K	7.0	15.5	26.5	0.8	22.50	190	11
11	PPM 63-168 g K	0.068	K	7.0	15.5	26.5	0.8	22.50	190	13
12	PPM 63-182 g K	0.082	K	7.0	15.5	26.5	0.8	22.50	190	16
13	PPM 63-010 g K	0.10	L	8.5	18.0	26.5	0.8	22.50	190	19
14	PPM 63-012 g K	0.12	L	8.5	18.0	26.5	0.8	22.50	190	23
15	PPM 63-015 g K	0.15	M	10.5	19.0	26.5	0.8	22.50	190	29
16	PPM 63-018 g K	0.18	M	10.5	19.0	26.5	0.8	22.50	190	35
17	PPM 63-022 g K	0.22	N	11.5	20.5	31.5	0.8	27.50	130	29
18	PPM 63-027 g K	0.27	N	11.5	20.5	31.5	0.8	27.50	130	36
19	PPM 63-033 g K	0.33	O	14.0	24.0	31.5	0.8	27.50	130	43
20	PPM 63-039 g K	0.39	O	14.0	24.0	31.5	0.8	27.50	130	51
21	PPM 63-047 g K	0.47	O	14.0	24.0	31.5	0.8	27.50	130	62
22	PPM 63-056 g K **	0.56	P	18.0	27.5	31.5	0.8	27.50	130	73
23	PPM 63-068 g K **	0.68	P	18.0	27.5	31.5	0.8	27.50	130	89
24	PPM 63-082 g K **	0.82	Q	18.0	29.0	42.0	1.0	37.50	90	74
25	PPM 63-1.0 g K **	1.00	Q	18.0	29.0	42.0	1.0	37.50	90	90
26	PPM 63-1.2 g K **	1.20	Q	18.0	29.0	42.0	1.0	37.50	90	108
27	PPM 63-1.5 g K	1.50	R	20.0	33.5	42.0	1.0	37.50	90	135
28	PPM 63-1.8 g K **	1.80	S	25.0	40.0	42.0	1.0	37.50	90	162
29	PPM 63-2.2 g K **	2.20	S	25.0	40.0	42.0	1.0	37.50	90	198

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**METALLIZED POLYPROPYLENE CAPACITORS**

**Type PPM ... g**

**PPM ... g 1000 VDC**

B4F2 Pos.	Type	Cn [μF]	Dimensions						dU / dt max [V / μs]	î s [A]
			Case	B [mm]	H [mm]	L [mm]	∅ lead [mm]	Pitch [mm]		
1	PPM 100-110 g K	0.010	I	6.5	12.5	18.0	0.8	15.00	600	6
2	PPM 100-112 g K	0.012	J	8.5	14.5	18.0	0.8	15.00	600	8
3	PPM 100-115 g K	0.015	J	8.5	14.5	18.0	0.8	15.00	600	9
4	PPM 100-118 g K	0.018	J	8.5	14.5	18.0	0.8	15.00	600	11
5	PPM 100-122 g K	0.022	K	7.0	15.5	26.5	0.8	22.50	320	8
6	PPM 100-127 g K	0.027	K	7.0	15.5	26.5	0.8	22.50	320	9
7	PPM 100-133 g K	0.033	L	8.5	18.0	26.5	0.8	22.50	320	11
8	PPM 100-139 g K	0.039	L	8.5	18.0	26.5	0.8	22.50	320	13
9	PPM 100-147 g K	0.047	M	10.5	19.0	26.5	0.8	22.50	320	16
10	PPM 100-156 g K	0.056	M	10.5	19.0	26.5	0.8	22.50	320	18
11	PPM 100-168 g K	0.068	N	11.5	20.5	31.5	0.8	27.50	230	16
12	PPM 100-182 g K	0.082	N	11.5	20.5	31.5	0.8	27.50	230	19
13	PPM 100-010 g K	0.10	N	11.5	20.5	31.5	0.8	27.50	230	23
14	PPM 100-012 g K	0.12	O	14.0	24.0	31.5	0.8	27.50	230	28
15	PPM 100-015 g K	0.15	O	14.0	24.0	31.5	0.8	27.50	230	35
16	PPM 100-018 g K	0.18	O	14.0	24.0	31.5	0.8	27.50	230	42
17	PPM 100-022 g K	** 0.22	P	18.0	27.5	31.5	0.8	27.50	230	51
18	PPM 100-027 g K	** 0.27	Q	18.0	29.0	42.0	1.0	37.50	130	36
19	PPM 100-033 g K	** 0.33	Q	18.0	29.0	42.0	1.0	37.50	130	43
20	PPM 100-039 g K	** 0.39	Q	18.0	29.0	42.0	1.0	37.50	130	51
21	PPM 100-047 g K	0.47	R	20.0	33.5	42.0	1.0	37.50	130	62
22	PPM 100-056 g K	0.56	R	20.0	33.5	42.0	1.0	37.50	130	73
23	PPM 100-068 g K	** 0.68	S	25.0	40.0	42.0	1.0	37.50	130	89
24	PPM 100-082 g K	** 0.82	S	25.0	40.0	42.0	1.0	37.50	130	107

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