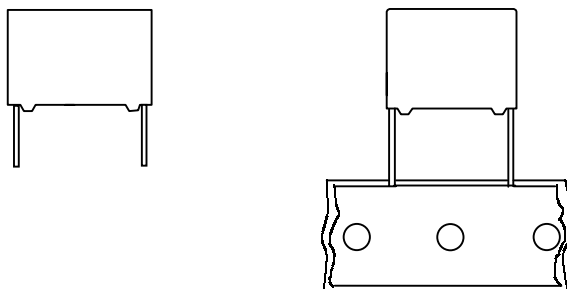


AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

MMKP RADIAL POTTED CAPACITORS

Pitch 10.0/15.0/22.5/27.5mm
(reduced pitch 7.5mm)

QUICK REFERENCE DATA

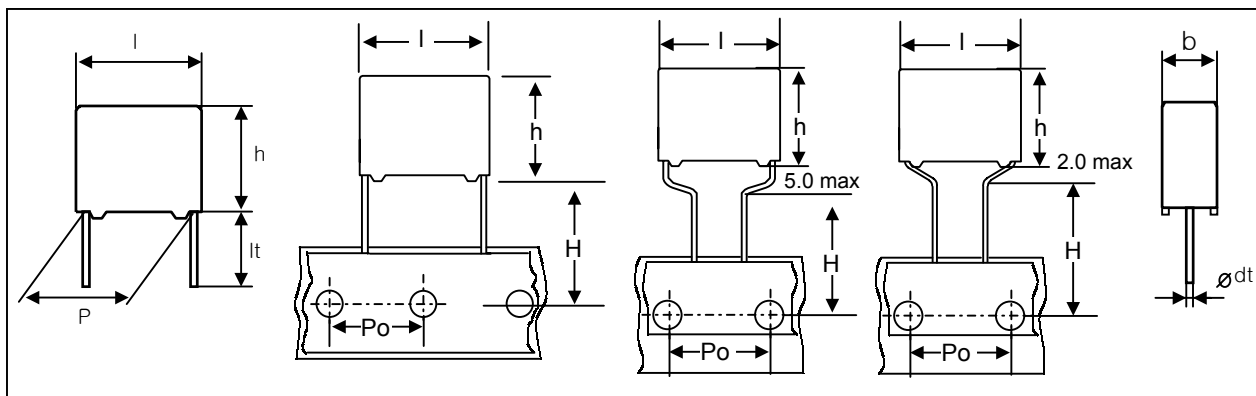
Capacitance range (E24 series)	0.001 to 1.0 μ F
Capacitance tolerance	$\pm 5\%$
Rated voltage (DC)	250 V, 400 V, 630 V, 1000 V, 1600 V, 2000 V, 2500 V
Climatic category	55/105/56
Rated temperature	85 $^{\circ}$ C
Maximum application temperature	105 $^{\circ}$ C
Reference specification	IEC 60384-17

FEATURES	APPLICATIONS
. Low contact resistance . Low loss dielectric . Small dimension for high density packaging . Supplied loose in box and ammo pack . Potted with epoxy resin in flame retardant case meeting the requirements of UL94-0	. Electronic lighting e.g. Ballast . S-correction, Fly-back circuit in television receivers . UPS, Inverters . IGBT Snubber . Protection power semi-conductor

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

Ordering Information



PCMP 384

Type series

X X XXX

Capacitance

Code	Voltage
4	250V
5	400V
6	630V
C	630V mini
1	630V (400Vac)
7	1000V
D	1000V mini
8	1600V
9	2000V
2	2000V(700Vac)
0	2500V

Available versions					Product (l_{max})		
Code	Packing method	C-tol.	Lead length & Height	Hole to hole (P_o)	12.5	18.0	26.0
					Pitch (P)		
2	Loose in box	$\pm 5\%$	$l_t = 5.0 \pm 1.0\text{mm}$	-	10.0	15.0	22.5
3	Loose in box	$\pm 5\%$	$l_t = 25.0 \pm 2.0\text{mm}$	-	10.0	15.0	22.5
7	Loose in box	$\pm 10\%$	$l_t = 25.0 \pm 2.0\text{mm}$	-	10.0	15.0	22.5
1	Loose in box	$\pm 5\%$	$l_t = 3.2 \pm 0.3\text{mm}$	-	10.0	15.0	22.5
6	Loose in box	$\pm 10\%$	$l_t = 3.2 \pm 0.3\text{mm}$	-	10.0	15.0	22.5
8	Loose in box	$\pm 3.5\%$	$l_t = 5.0 \pm 1.0\text{mm}$	-	10.0	15.0	22.5
M	Loose in box	$\pm 5\%$	$l_t = 5.0 \pm 1.0\text{mm}$	-	Multisize		
4	Ammo packing	$\pm 5\%$	$H = 18.5\text{mm}$	15.0mm	10.0	15.0	22.5
5	Ammo packing	$\pm 5\%$	$H = 18.5\text{mm}$	12.7mm	10.0	15.0	22.5
A	Ammo packing	$\pm 5\%$	$H = 16.0\text{mm}$	15.0mm	7.5(*)	7.5(*)	-
C	Ammo packing	$\pm 5\%$	$H = 16.0\text{mm}$	15.0mm		7.5(**)	
B	Reel packing	$\pm 5\%$	$H = 16.0\text{mm}$	15.0mm	-	7.5(*)	-

* Reduced pitch (Reduced lead spacings)

** Reduced pitch (Low height)

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

Packaging Information

SMALLEST PACKING QUANTITIES (SPQ)	Loose in box
	It = 5.0±1.0mm
DIMENSIONS	SPQ
4.0 X 10.0 X 12.5	2000
5.0 X 11.0 X 12.5	1500
6.0 X 12.0 X 12.5	1000
5.0 X 11.0 X 18.0	1000
6.0 X 12.0 X 18.0	1000
7.0 X 13.5 X 18.0	1000
8.5 X 15.0 X 18.0	1000
10.0 X 16.5 X 18.0	1000
6.0 X 15.5 X 26.0	1000
7.0 X 16.5 X 26.0	1000
8.5 X 18.0 X 26.0	500
10.0 X 19.5 X 26.0	500
11.5 X 21.0 X 26.0	500
12.5 X 22.5 X 26.0	500
11.0 X 21.0 X 31.0	500
13.0 X 23.0 X 31.0	250
15.0 X 25.0 X 31.0	250
18.0 X 28.0 X 31.0	200

AC and Pulse

PCMP 384

Double Side Metallized Polypropylene film Capacitors

V _{Rdc} = 250 V		V _{Rac} = 125 V		V _{p-p} = 350 V	
Cap (μF)	b x h x l (mm))	Mess (g)	CATALOGUE NUMBER		
			PCMP 384		
			loose in box	ammo packing	
			It = 5.0 ± 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)	
			C – tol. ± 5 %	C – tol. ± 5 %	
Pitch = 15.0 ± 0.4 mm dt = 0.8 +0.08/-0.05 mm					
0.068 0.075 0.082 0.091 0.10	5.0 x 11.0 x 18.0	1.2	PCMP 384 42683 PCMP 384 42753 PCMP 384 42823 PCMP 384 42913 PCMP 384 42104	PCMP 384 4A683 PCMP 384 4A753 PCMP 384 4A823 PCMP 384 4A913 PCMP 384 4A104	
0.11 0.12 0.13 0.15	6.0 x 12.0 x 18.0	1.4	PCMP 384 42114 PCMP 384 42124 PCMP 384 42134 PCMP 384 42154	PCMP 384 4A114 PCMP 384 4A124 PCMP 384 4A134 PCMP 384 4A154	
0.16 0.18 0.20	7.0 x 13.5 x 18.0	1.9	PCMP 384 42164 PCMP 384 42184 PCMP 384 42204	PCMP 384 4A164 PCMP 384 4A184 PCMP 384 4A204	
0.22 0.24 0.27 0.30	8.5 x 15.0 x 18.0	2.6	PCMP 384 42224 PCMP 384 42244 PCMP 384 42274 PCMP 384 42304	PCMP 384 4A224 PCMP 384 4A244 PCMP 384 4A274 PCMP 384 4A304	
0.33	10.0 x 16.5 x 18.0	3.1	PCMP 384 42334	PCMP 384 4A334	
Pitch = 22.5 ± 0.4 mm dt = 0.8 +0.08/-0.05 mm					
0.36 0.39	7.0 x 16.5 x 26.0	3.2	PCMP 384 42364 PCMP 384 42394	- -	
0.43 0.47 0.51 0.56	8.5 x 18.0 x 26.0	4.4	PCMP 384 42434 PCMP 384 42474 PCMP 384 42514 PCMP 384 42564	- - - -	
0.62 0.68 0.75	10.0 x 19.5 x 26.0	5.5	PCMP 384 42624 PCMP 384 42684 PCMP 384 42754	- - -	
0.82	11.5 x 21.0 x 26.0	6.0	PCMP 384 42824	-	
0.91 1.0	12.5 x 22.5 x 26.0	6.6	PCMP 384 42914 PCMP 384 42105	- -	

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384 $V_{Rdc} = 400 \text{ V}$ $V_{Rac} = 220 \text{ V}$ $V_{p-p} = 560 \text{ V}$

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.036 0.039 0.043 0.047 0.051 0.056	5.0 x 11.0 x 18.0	1.2	PCMP 384 52363 PCMP 384 52393 PCMP 384 52433 PCMP 384 52473 PCMP 384 52513 PCMP 384 52563	PCMP 384 5A363 PCMP 384 5A393 PCMP 384 5A433 PCMP 384 5A473 PCMP 384 5A513 PCMP 384 5A563
0.062 0.068 0.075 0.082	6.0 x 12.0 x 18.0	1.4	PCMP 384 52623 PCMP 384 52683 PCMP 384 52753 PCMP 384 52823	PCMP 384 5A623 PCMP 384 5A683 PCMP 384 5A753 PCMP 384 5A823
0.091 0.10 0.11	7.0 x 13.5 x 18.0	1.9	PCMP 384 52913 PCMP 384 52104 PCMP 384 52114	PCMP 384 5A913 PCMP 384 5A104 PCMP 384 5A114
0.12 0.13 0.15 0.16	8.5 x 15.0 x 18.0	2.6	PCMP 384 52124 PCMP 384 52134 PCMP 384 52154 PCMP 384 52164	PCMP 384 5A124 PCMP 384 5A134 PCMP 384 5A154 PCMP 384 5A164
0.18 0.20 0.22	10.0 x 16.5 x 18.0	3.1	PCMP 384 52184 PCMP 384 52204 PCMP 384 52224	PCMP 384 5A184 PCMP 384 5A204 PCMP 384 5A224
Pitch = 22.5 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.22	7.0 x 16.5 x 26.0	3.2	PCMP 384 5M224	- -
0.24 0.27 0.30	8.5 x 18.0 x 26.0	4.4	PCMP 384 52244 PCMP 384 52274 PCMP 384 52304	- - -
0.33 0.36 0.39 0.43 0.47	10.0 x 19.5 x 26.0	5.5	PCMP 384 52334 PCMP 384 52364 PCMP 384 52394 PCMP 384 52434 PCMP 384 52474	- - - - -

AC and Pulse

PCMP 384

Double Side Metallized Polypropylene film Capacitors

V _{Rdc} = 630 V		V _{Rac} = 250 V		V _{p-p} = 630 V		Mini Type
Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER			
			PCMP 384			
			loose in box		ammo packing	
			lt = 5.0 ± 1.0 mm		H = 16.0 mm Reduced pitch(7.5mm)	
			C – tol. ± 5 %		C – tol. ± 5 %	
Pitch = 15.0 ± 0.4 mm dt = 0.8 +0.08/-0.05 mm						
0.010 0.011 0.012 0.013 0.015 0.016 0.018 0.020 0.022 0.024 0.027 0.030 0.033 0.036	5.0 x 11.0 x 18.0	1.2	PCMP 384 62103 PCMP 384 62113 PCMP 384 62123 PCMP 384 62133 PCMP 384 62153 PCMP 384 62163 PCMP 384 62183 PCMP 384 62203 PCMP 384 62223 PCMP 384 62243 PCMP 384 62273 PCMP 384 C2303 PCMP 384 C2333 PCMP 384 C2363	PCMP 384 6A103 PCMP 384 6A113 PCMP 384 6A123 PCMP 384 6A133 PCMP 384 6A153 PCMP 384 6A163 PCMP 384 6A183 PCMP 384 6A203 PCMP 384 6A223 PCMP 384 6A243 PCMP 384 6A273 PCMP 384 CA303 PCMP 384 CA333 PCMP 384 CA363		
0.039 0.043 0.047 0.051 0.056	6.0 x 12.0 x 18.0	1.4	PCMP 384 C2393 PCMP 384 C2433 PCMP 384 C2473 PCMP 384 C2513 PCMP 384 C2563	PCMP 384 CA393 PCMP 384 CA433 PCMP 384 CA473 PCMP 384 CA513 PCMP 384 CA563		
0.062 0.068 0.075	7.0 x 13.5 x 18.0	1.9	PCMP 384 C2623 PCMP 384 C2683 PCMP 384 C2753	PCMP 384 CA623 PCMP 384 CA683 PCMP 384 CA753		
0.082 0.091 0.10 0.11	8.5 x 15.0 x 18.0	2.6	PCMP 384 C2823 PCMP 384 C2913 PCMP 384 C2104 PCMP 384 C2114	PCMP 384 CA823 PCMP 384 CA913 PCMP 384 CA104 PCMP 384 CA114		
0.12 0.13 0.15	10.0 x 16.5 x 18.0	3.1	PCMP 384 C2124 PCMP 384 C2134 PCMP 384 C2154	PCMP 384 CA124 PCMP 384 CA134 PCMP 384 CA154		
Pitch = 22.5 ± 0.4 mm dt = 0.8 +0.08/-0.05 mm						
0.16 0.18 0.20 0.22	8.5 x 18.0 x 26.0	4.4	PCMP 384 C2164 PCMP 384 C2184 PCMP 384 C2204 PCMP 384 C2224	- - - -		
0.24 0.27	10.0 x 19.5 x 26.0	5.5	PCMP 384 C2244 PCMP 384 C2274	- -		

 ; Larger type

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 630 \text{ V}$ $V_{Rac} = 400 \text{ V}$ $V_{p-p} = 630 \text{ V}$

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 10.0 $\pm$ 0.4 mm dt = 0.6 +0.06/-0.05 mm				
0.0047 0.0051 0.0056 0.0062 0.0068 0.0075 0.0082	4.0 x 10.0 x 12.5	0.8	PCMP 384 12472 PCMP 384 12512 PCMP 384 12562 PCMP 384 12622 PCMP 384 12682 PCMP 384 12752 PCMP 384 12822	PCMP 384 1A472 PCMP 384 1A512 PCMP 384 1A562 PCMP 384 1A622 PCMP 384 1A682 PCMP 384 1A752 PCMP 384 1A822
0.0091 0.010 0.011 0.012	5.0 x 11.0 x 12.5	0.9	PCMP 384 12912 PCMP 384 12103 PCMP 384 12113 PCMP 384 12123	PCMP 384 1A912 PCMP 384 1A103 PCMP 384 1A113 PCMP 384 1A123
0.013 0.015 0.016 0.018	6.0 x 12.0 x 12.5	1.0	PCMP 384 12133 PCMP 384 12153 PCMP 384 12163 PCMP 384 12183	PCMP 384 1A133 PCMP 384 1A153 PCMP 384 1A163 PCMP 384 1A183
Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.020 0.022 0.024 0.027	5.0 x 11.0 x 18.0	1.2	PCMP 384 12203 PCMP 384 12223 PCMP 384 12243 PCMP 384 12273	PCMP 384 1A203 PCMP 384 1A223 PCMP 384 1A243 PCMP 384 1A273
0.030 0.033 0.036 0.039	6.0 x 12.0 x 18.0	1.4	PCMP 384 12303 PCMP 384 12333 PCMP 384 12363 PCMP 384 12393	PCMP 384 1A303 PCMP 384 1A333 PCMP 384 1A363 PCMP 384 1A393
0.043 0.047	7.0 x 13.5 x 18.0	1.9	PCMP 384 12433 PCMP 384 12473	PCMP 384 1A433 PCMP 384 1A473
0.051 0.056 0.062 0.068	8.5 x 15.0 x 18.0	2.6	PCMP 384 12513 PCMP 384 12563 PCMP 384 12623 PCMP 384 12683	PCMP 384 1A513 PCMP 384 1A563 PCMP 384 1A623 PCMP 384 1A683
0.075 0.082 0.091 0.10	10.0 x 16.5 x 18.0	3.1	PCMP 384 12753 PCMP 384 12823 PCMP 384 12913 PCMP 384 12104	PCMP 384 1A753 PCMP 384 1A823 PCMP 384 1A913 PCMP 384 1A104
Pitch = 22.5 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.11 0.12	7.0 x 16.5 x 26.0	3.2	PCMP 384 12114 PCMP 384 12124	- -
0.13 0.15 0.16 0.18	8.5 x 18.0 x 26.0	4.4	PCMP 384 12134 PCMP 384 12154 PCMP 384 12164 PCMP 384 12184	- - - -
0.20 0.22	10.0 x 19.5 x 26.0	5.5	PCMP 384 12204 PCMP 384 12224	- -

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 1000 \text{ V}$ $V_{Rac} = 600 \text{ V}$ $V_{p-p} = 1000 \text{ V}$

Mini Type

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 10.0 $\pm$ 0.4 mm			dt = 0.6 +0.06/-0.05 mm	
0.0010 0.0011 0.0012 0.0013 0.0015 0.0016 0.0018 0.0020 0.0022 0.0024 0.0027 0.0030 0.0033	4.0 x 10.0 x 12.5	0.8	PCMP 384 D2102 PCMP 384 D2112 PCMP 384 D2122 PCMP 384 D2132 PCMP 384 D2152 PCMP 384 D2162 PCMP 384 D2182 PCMP 384 D2202 PCMP 384 D2222 PCMP 384 D2242 PCMP 384 D2272 PCMP 384 D2302 PCMP 384 D2332	PCMP 384 DA102 PCMP 384 DA112 PCMP 384 DA122 PCMP 384 DA132 PCMP 384 DA152 PCMP 384 DA162 PCMP 384 DA182 PCMP 384 DA202 PCMP 384 DA222 PCMP 384 DA242 PCMP 384 DA272 PCMP 384 DA302 PCMP 384 DA332
0.0036 0.0039 0.0043 0.0047	5.0 x 11.0 x 12.5	0.9	PCMP 384 D2362 PCMP 384 D2392 PCMP 384 D2432 PCMP 384 D2472	PCMP 384 DA362 PCMP 384 DA392 PCMP 384 DA432 PCMP 384 DA472
0.0051 0.0056 0.0062 0.0068	6.0 x 12.0 x12.5	1.0	PCMP 384 D2512 PCMP 384 D2562 PCMP 384 D2622 PCMP 384 D2682	PCMP 384 DA512 PCMP 384 DA562 PCMP 384 DA622 PCMP 384 DA682
Pitch = 15.0 $\pm$ 0.4 mm			dt = 0.8 +0.08/-0.05 mm	
0.0033 0.0036 0.0039 0.0043 0.0047 0.0051 0.0056 0.0062 0.0068 0.0075 0.0082 0.0091 0.010 0.011 0.012	5.0 x 11.0 x 18.0	1.2	PCMP 384 72332 PCMP 384 72362 PCMP 384 72392 PCMP 384 72432 PCMP 384 72472 PCMP 384 72512 PCMP 384 72562 PCMP 384 72622 PCMP 384 72682 PCMP 384 D2752 PCMP 384 D2822 PCMP 384 D2912 PCMP 384 D2103 PCMP 384 D2113 PCMP 384 D2123	PCMP 384 7A332 PCMP 384 7A362 PCMP 384 7A392 PCMP 384 7A432 PCMP 384 7A472 PCMP 384 7A512 PCMP 384 7A562 PCMP 384 7A622 PCMP 384 7A682 PCMP 384 DA752 PCMP 384 DA822 PCMP 384 DA912 PCMP 384 DA103 PCMP 384 DA113 PCMP 384 DA123
0.013 0.015	6.0 x 12.0 x 18.0	1.4	PCMP 384 D2133 PCMP 384 D2153	PCMP 384 DA133 PCMP 384 DA153
0.016 0.018 0.020 0.022	7.0 x 13.5 x 18.0	1.9	PCMP 384 D2163 PCMP 384 D2183 PCMP 384 D2203 PCMP 384 D2223	PCMP 384 DA163 PCMP 384 DA183 PCMP 384 DA203 PCMP 384 DA223
0.024 0.027 0.030 0.033	8.5 x 15.0 x 18.0	2.6	PCMP 384 D2243 PCMP 384 D2273 PCMP 384 D2303 PCMP 384 D2333	PCMP 384 DA243 PCMP 384 DA273 PCMP 384 DA303 PCMP 384 DA333
0.036 0.039	10.0 x 16.5 x 18.0	3.1	PCMP 384 D2363 PCMP 384 D2393	PCMP 384 DA363 PCMP 384 DA393

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

$V_{Rdc} = 1000\text{ V}$		$V_{Rac} = 600\text{ V}$		$V_{p-p} = 1000\text{ V}$		Mini Type
Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER			
			PCMP 384			
			loose in box		ammo packing	
			lt = 5.0 ± 1.0 mm		H = 16.0 mm Reduced pitch(7.5mm)	
			C – tol. ± 5 %		C – tol. ± 5 %	
Pitch = 22.5 ± 0.4 mm			dt = 0.8 +0.08/-0.05 mm			
0.043	7.0 x 16.5 x 26.0	3.2	PCMP 384 D2433		-	
0.047			PCMP 384 D2473		-	
0.051			PCMP 384 D2513		-	
0.056	8.5 x 18.0 x 26.0	4.4	PCMP 384 D2563		-	
0.062			PCMP 384 D2623		-	
0.068			PCMP 384 D2683		-	
0.075	10.0 x 19.5 x 26.0	5.5	PCMP 384 D2753		-	
0.082			PCMP 384 D2823		-	
0.091			PCMP 384 D2913		-	
0.10			PCMP 384 D2104		-	

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 1600 \text{ V}$ $V_{Rac} = 650 \text{ V}$ $V_{p-p} = 1600 \text{ V}$

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.00068 0.00082	5.0 x 11.0 x 18.0	1.2	-(*) -(*)	-(*) -(*)
0.0022 0.0024 0.0027 0.0030 0.0033 0.0036 0.0039 0.0043 0.0047	5.0 x 11.0 x 18.0	1.2	PCMP 384 82222 PCMP 384 82242 PCMP 384 82272 PCMP 384 82302 PCMP 384 82332 PCMP 384 82362 PCMP 384 82392 PCMP 384 82432 PCMP 384 82472	PCMP 384 8A222 PCMP 384 8A242 PCMP 384 8A272 PCMP 384 8A302 PCMP 384 8A332 PCMP 384 8A362 PCMP 384 8A392 PCMP 384 8A432 PCMP 384 8A472
0.0051 0.0056 0.0062 0.0068	6.0 x 12.0 x 18.0	1.4	PCMP 384 82512 PCMP 384 82562 PCMP 384 82622 PCMP 384 82682	PCMP 384 8A512 PCMP 384 8A562 PCMP 384 8A622 PCMP 384 8A682
0.0075 0.0082	7.0 x 13.5 x 18.0	1.9	PCMP 384 82752 PCMP 384 82822	PCMP 384 8A752 PCMP 384 8A822
0.0091 0.010 0.011 0.012	8.5 x 15.0 x 18.0	2.6	PCMP 384 82912 PCMP 384 82103 PCMP 384 82113 PCMP 384 82123	PCMP 384 8A912 PCMP 384 8A103 PCMP 384 8A113 PCMP 384 8A123
0.013 0.015 0.016 0.018	10.0 x 16.5 x 18.0	3.1	PCMP 384 82133 PCMP 384 82153 PCMP 384 82163 PCMP 384 82183	PCMP 384 8A133 PCMP 384 8A153 PCMP 384 8A163 PCMP 384 8A183
Pitch = 22.5 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.0056 0.0062 0.0068 0.0075 0.0082 0.0091 0.010	6.0 x 15.5 x 26.0	2.9	PCMP 384 8M562 PCMP 384 8M622 PCMP 384 8M682 PCMP 384 8M752 PCMP 384 8M822 PCMP 384 8M912 PCMP 384 8M103	- - - - - - -
0.011 0.012 0.013 0.015	7.0 x 16.5 x 26.0	3.2	PCMP 384 8M113 PCMP 384 8M123 PCMP 384 8M133 PCMP 384 8M153	- - - -
0.016 0.018 0.020 0.022	8.5 x 18.0 x 26.0	4.4	PCMP 384 8M163 PCMP 384 8M183 PCMP 384 82203 PCMP 384 82223	- - - -
0.024 0.027	10.0 x 19.5 x 26.0	5.5	PCMP 384 82243 PCMP 384 82273	- -

* 10% tolerance available.

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 2000 \text{ V}$ $V_{Rac} = 680 \text{ V}$ $V_{p-p} = 2000 \text{ V}$

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.0020 0.0022 0.0024 0.0027	5.0 x 11.0 x 18.0	1.2	PCMP 384 92202 PCMP 384 92222 PCMP 384 92242 PCMP 384 92272	PCMP 384 9A202 PCMP 384 9A222 PCMP 384 9A242 PCMP 384 9A272
0.0030 0.0033 0.0036 0.0039	6.0 x 12.0 x 18.0	1.4	PCMP 384 92302 PCMP 384 92332 PCMP 384 92362 PCMP 384 92392	PCMP 384 9A302 PCMP 384 9A332 PCMP 384 9A362 PCMP 384 9A392
0.0043 0.0047 0.0051 0.0056	7.0 x 13.5 x 18.0	1.9	PCMP 384 92432 PCMP 384 92472 PCMP 384 92512 PCMP 384 92562	PCMP 384 9A432 PCMP 384 9A472 PCMP 384 9A512 PCMP 384 9A562
0.0062 0.0068 0.0075 0.0082	8.5 x 15.0 x 18.0	2.6	PCMP 384 92622 PCMP 384 92682 PCMP 384 92752 PCMP 384 92822	PCMP 384 9A622 PCMP 384 9A682 PCMP 384 9A752 PCMP 384 9A822
0.0091 0.010 0.011 0.012	10.0 x 16.5 x 18.0	3.1	PCMP 384 92912 PCMP 384 92103 PCMP 384 92113 PCMP 384 92123	PCMP 384 9A912 PCMP 384 9A103 PCMP 384 9A113 PCMP 384 9A123
Pitch = 22.5 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.0056 0.0062 0.0068	6.0 x 15.5 x 26.0	2.9	PCMP 384 9M562 PCMP 384 9M622 PCMP 384 9M682	- - -
0.0075 0.0082 0.0091 0.010	7.0 x 16.5 x 26.0	3.2	PCMP 384 9M752 PCMP 384 9M822 PCMP 384 9M912 PCMP 384 9M103	- - - -
0.011 0.012 0.013 0.015	8.5 x 18.0 x 26.0	4.4	PCMP 384 9M113 PCMP 384 9M123 PCMP 384 92133 PCMP 384 92153	- - - -
0.016 0.018	10.0 x 19.5 x 26.0	5.5	PCMP 384 92163 PCMP 384 92183	- -

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

V _{Rdc} = 2000 V		V _{Rac} = 700 V		V _{p-p} = 2000 V	
Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER		
			PCMP 384		
			loose in box	ammo packing	
			It = 5.0 ± 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)	
			C – tol. ± 5 %	C – tol. ± 5 %	
Pitch = 15.0 ± 0.4 mm dt = 0.8 +0.08/-0.05 mm					
0.00068 0.00082	5.0 x 11.0 x 18.0	1.2	-(*) -(*)	-(*) -(*)	
0.0010 0.0011 0.0012 0.0013 0.0015 0.0016 0.0018 0.0020 0.0022 0.0024	5.0 x 11.0 x 18.0	1.2	PCMP 384 22102 PCMP 384 22112 PCMP 384 22122 PCMP 384 22132 PCMP 384 22152 PCMP 384 22162 PCMP 384 22182 PCMP 384 22202 PCMP 384 22222 PCMP 384 22242	PCMP 384 2A102 PCMP 384 2A112 PCMP 384 2A122 PCMP 384 2A132 PCMP 384 2A152 PCMP 384 2A162 PCMP 384 2A182 PCMP 384 2A202 PCMP 384 2A222 PCMP 384 2A242	
0.0027 0.0030 0.0033 0.0036	6.0 x 12.0 x 18.0	1.4	PCMP 384 22272 PCMP 384 22302 PCMP 384 22332 PCMP 384 22362	PCMP 384 2A272 PCMP 384 2A302 PCMP 384 2A332 PCMP 384 2A362	
0.0039 0.0043 0.0047	7.0 x 13.5 x 18.0	1.9	PCMP 384 22392 PCMP 384 22432 PCMP 384 22472	PCMP 384 2A392 PCMP 384 2A432 PCMP 384 2A472	
0.0051 0.0056 0.0062 0.0068	8.5 x 15.0 x 18.0	2.6	PCMP 384 22512 PCMP 384 22562 PCMP 384 22622 PCMP 384 22682	PCMP 384 2A512 PCMP 384 2A562 PCMP 384 2A622 PCMP 384 2A682	
0.0075 0.0082 0.0091 0.010	10.0 x 16.5 x 18.0	3.1	PCMP 384 22752 PCMP 384 22822 PCMP 384 22912 PCMP 384 22103	PCMP 384 2A752 PCMP 384 2A822 PCMP 384 2A912 PCMP 384 2A103	

* 10% tolerance available.

AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

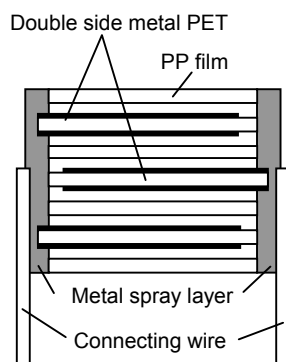
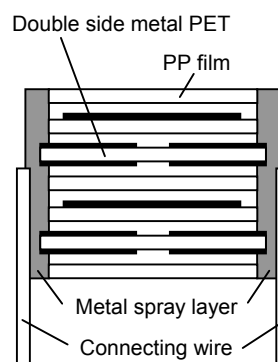
 $V_{Rdc} = 2500 \text{ V}$ $V_{Rac} = 900 \text{ V}$ $V_{p-p} = 2500 \text{ V}$

Cap (μF)	b x h x l (mm)	Mess (g)	CATALOGUE NUMBER	
			PCMP 384	
			loose in box	ammo packing
			lt = 5.0 $\pm$ 1.0 mm	H = 16.0 mm Reduced pitch(7.5mm)
			C – tol. $\pm$ 5 %	C – tol. $\pm$ 5 %
Pitch = 22.5 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm				
0.0010 0.0011 0.0012 0.0013 0.0015 0.0016 0.0018 0.0020 0.0022 0.0024 0.0027 0.0030 0.0033 0.0036 0.0039 0.0043 0.0047 0.0051	6.0 x 15.5 x 26.0	2.9	PCMP 384 02102 PCMP 384 02112 PCMP 384 02122 PCMP 384 02132 PCMP 384 02152 PCMP 384 02162 PCMP 384 02182 PCMP 384 02202 PCMP 384 02222 PCMP 384 02242 PCMP 384 02272 PCMP 384 02302 PCMP 384 02332 PCMP 384 02362 PCMP 384 02392 PCMP 384 02432 PCMP 384 02472 PCMP 384 02512	- - - - - - - - - - - - - - - - - -
0.0056 0.0062 0.0068 0.0075	7.0 x 16.5 x 26.0	3.2	PCMP 384 02562 PCMP 384 02622 PCMP 384 02682 PCMP 384 02752	- - - -
0.0082 0.0091 0.010 0.011	8.5 x 18.0 x 26.0	4.4	PCMP 384 02822 PCMP 384 02912 PCMP 384 02103 PCMP 384 02113	- - - -
0.012 0.013 0.015	10.0 x 19.5 x 26.0	5.5	PCMP 384 02123 PCMP 384 02133 PCMP 384 02153	- - -

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

CONSTRUCTION

250V_{dc} ~ 630V_{dc} (< 400 V_{ac})630V_{dc} ~ 2000V_{dc} (>400 V_{ac})

Description ;

- . Low - inductive wound cell of metallized polyester carrier film and polypropylene (PP) film.
- . Potted with blue epoxy resin in a blue flame-retardant polypropylene case.
- . Radial leads, tin-coated.
- . Small stand-off pips allow removal of solder flux etc. during cleaning of the printed circuit board.

MOUNTING

NORMAL USE

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

- . For pitches of 15 mm the capacitors shall be mechanically fixed by the leads
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

STORAGE TEMPERATURE

- . Storage temperature : T_{stg} = -25 to +40 °C with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of 23±1°C, an atmospheric pressure of 86 to 106 kPa and a relative humidity of 50±2%.

For reference testing a conditioning period shall be applied of 96±4 h by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

AC and Pulse Double Side Metallized Polypropylene film Capacitors

CHARACTERISTICS

● Test Voltage

- . Test Voltage (between terminations) : $1.6 \times V_{Rdc}$, 1min
- . Test Voltage (between leads and Case) : $2840 V_{dc}$, 1min

● Dissipation Factor

Rated voltage	Capacitance	Tangent of loss angle ($\times 10^{-4}$)	
		10 KHz	100 KHz
250 V ($V_{Rac} = 125V\sim$)	$C \leq 0.33 \mu F$	≤ 5	≤ 25
	$0.33 \mu F < C \leq 1.0 \mu F$	≤ 5	≤ 45
400 V ($V_{Rac} = 200V\sim$)	$C \leq 0.33 \mu F$	≤ 5	≤ 15
	$0.033 \mu F < C \leq 0.22 \mu F$ (P =15.0mm)	≤ 5	≤ 20
	$0.22 \mu F < C \leq 0.47 \mu F$ (P =22.5mm)	≤ 10	≤ 40
630 V ($V_{Rac} = 250V\sim$, mini)	$C \leq 0.15 \mu F$	≤ 5	≤ 15
	$0.15 \mu F < C \leq 0.27 \mu F$	≤ 8	≤ 25
630 V ($V_{Rac} = 400V\sim$)	$C \leq 0.018 \mu F$	≤ 4	≤ 10
	$0.018 \mu F < C \leq 0.1 \mu F$	≤ 5	≤ 15
	$0.1 \mu F < C$	≤ 8	≤ 25
630 V ($V_{Rac} = 250V\sim$, old)	$C \leq 0.1 \mu F$	≤ 5	≤ 15
	$0.1 \mu F < C \leq 0.22 \mu F$	≤ 8	≤ 25
1000 V ($V_{Rac} = 450V\sim$)	$C \leq 0.027 \mu F$ (P =15.0mm)	≤ 4	≤ 15
	$0.012 \mu F \leq C \leq 0.039 \mu F$ (P =22.5mm)	≤ 6	≤ 20
1000 V ($V_{Rac} = 600V\sim$)	$C \leq 0.0056 \mu F$	≤ 4	≤ 15
	$0.0056 \mu F < C \leq 0.039 \mu F$	≤ 6	≤ 20
	$0.039 \mu F < C \leq 0.1 \mu F$	≤ 8	≤ 25
1600 V ($V_{Rac} = 650V\sim$)	$C \leq 0.018 \mu F$	≤ 5	≤ 15
	$0.0056 \mu F \leq C \leq 0.027 \mu F$	≤ 5	≤ 20
2000 V ($V_{Rac} = 680V\sim$)	$C \leq 0.012 \mu F$ (P =15.0mm)	≤ 5	≤ 15
	$0.0051 \mu F \leq C \leq 0.018 \mu F$ (P =22.5mm)	≤ 5	≤ 20
2000 V ($V_{Rac} = 700V\sim$)	$C \leq 0.01 \mu F$	≤ 5	≤ 15
2500 V ($V_{Rac} = 900V\sim$)	$0.0039 \mu F \leq C \leq 0.0047 \mu F$	≤ 5	≤ 15

● Insulation Resistance

The insulation resistance is measured for 1min $\pm 5s$, at 100V for $V_{Rdc} < 630V$, at 500V for $V_{Rdc} \geq 630V$

R between leads : $> 100\,000\ M\Omega$

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

● Rated Voltage Pulse Load Slope (dV/dt)_R

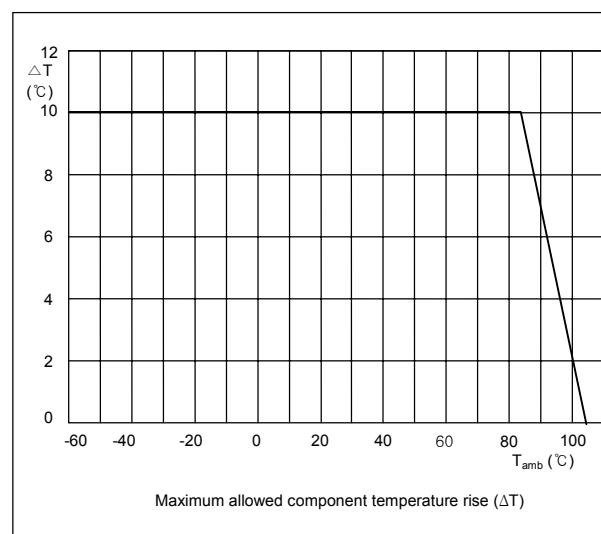
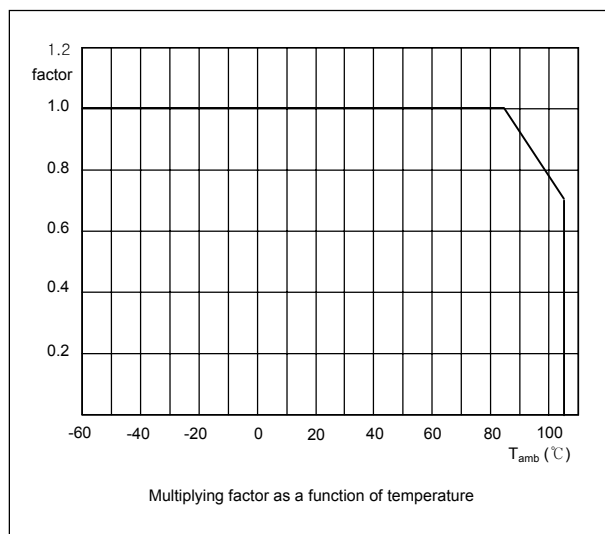
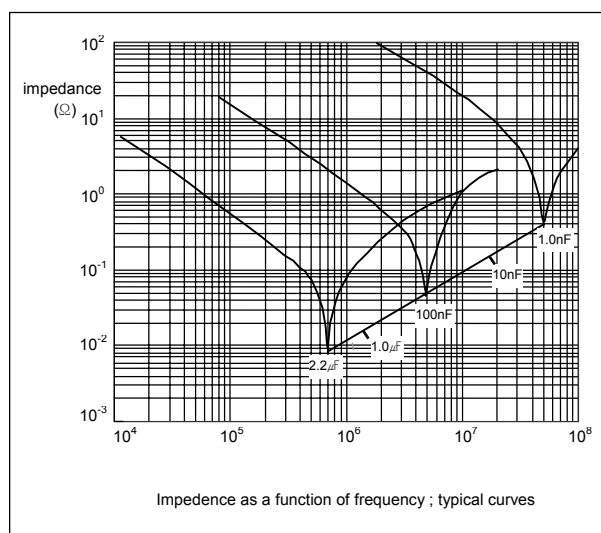
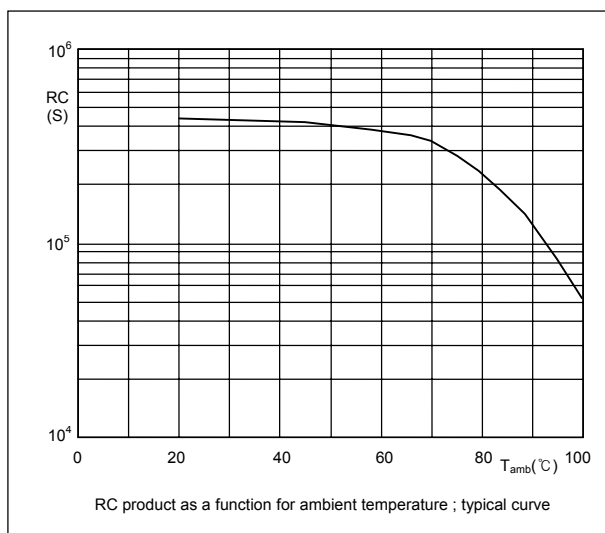
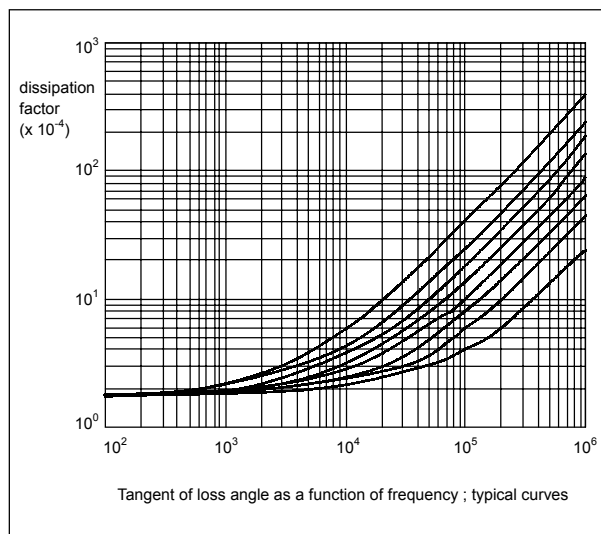
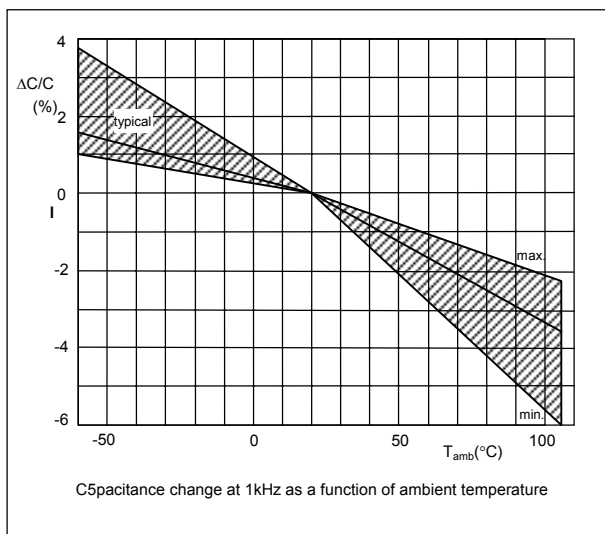
For values see specific reference data. If the pulse voltage is lower than the rated voltage, the values of the specific reference data must be multiplied by V_{Rdc} and divided by the applied voltage

Rated voltage	Rated voltage pulse slope (V/ μ s)			
	P = 10.0 mm	P = 15.0 mm	P = 22.5 mm	P = 27.5 mm
250 V	-	550	250	-
400 V	1200	700	400	-
630V	1500	900	500	400
630 V ($V_{Rac} = 400V\sim$)	3000	2500	1500	900
1000 V	4800	3300	2100	1200
1600 V	-	6000	3000	-
2000 V ($V_{Rac} = 680V\sim$)	-	9500	3500	-
2000 V ($V_{Rac} = 700V\sim$)	-	11000	-	-
2500 V	-	-	11000	-

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

THE GRAPHS OF CHARACTERISTICS

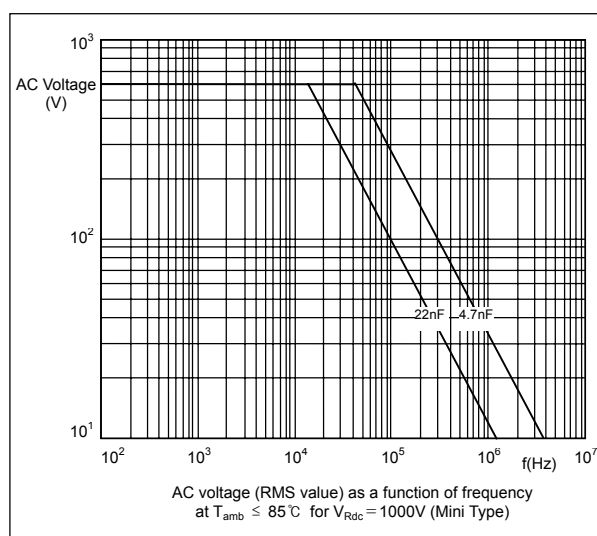
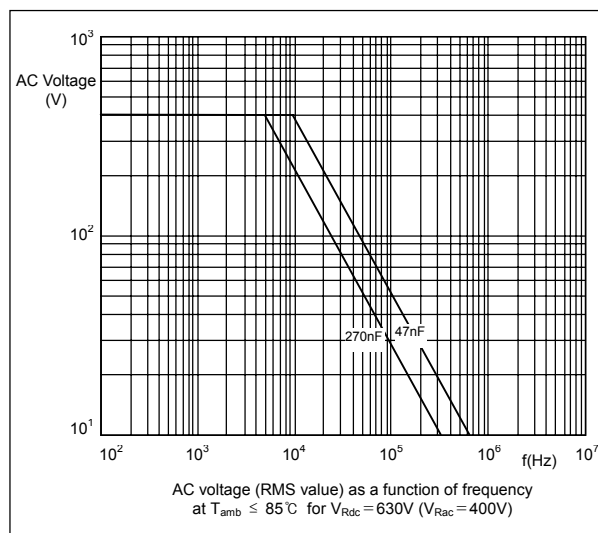
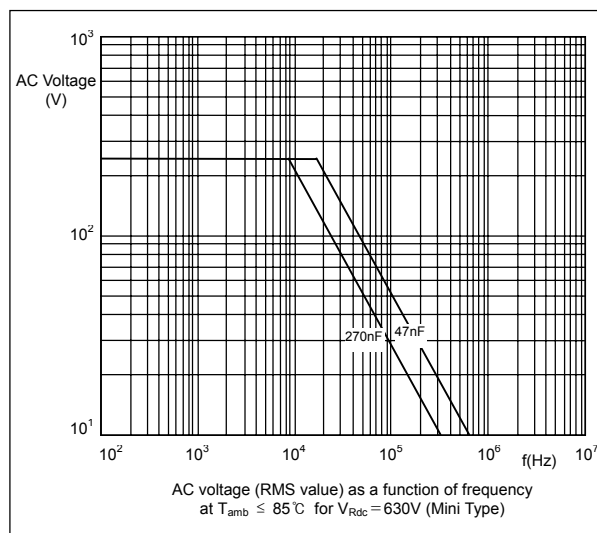
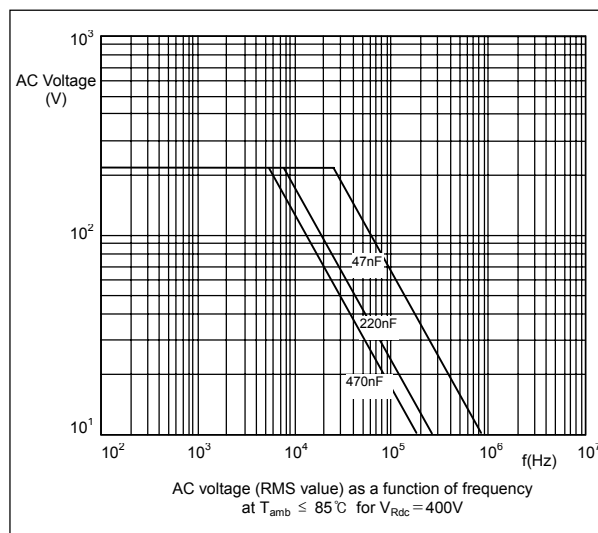
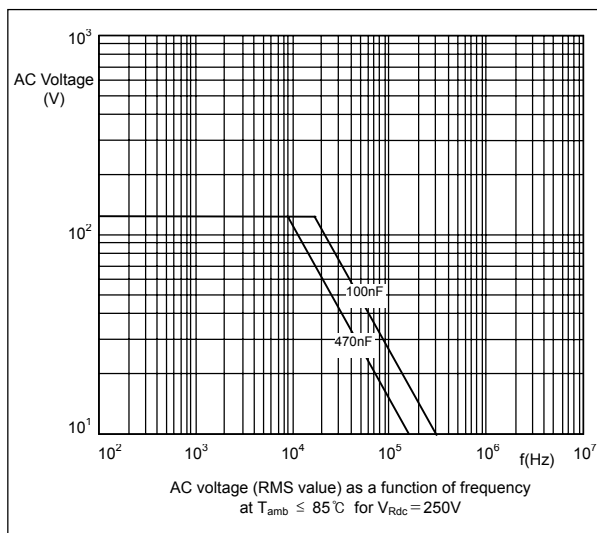


AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

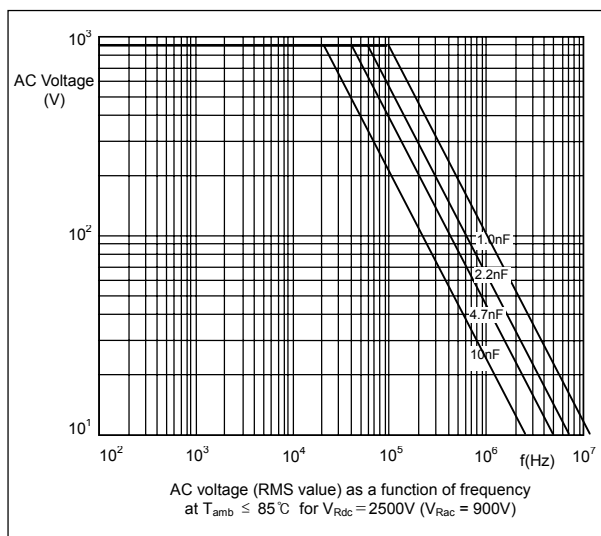
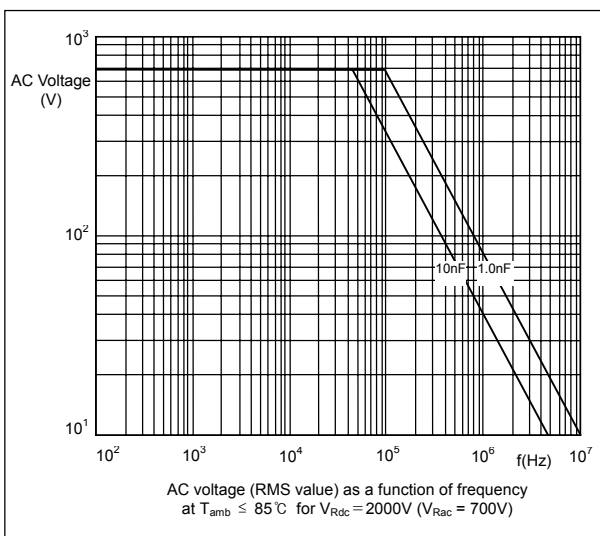
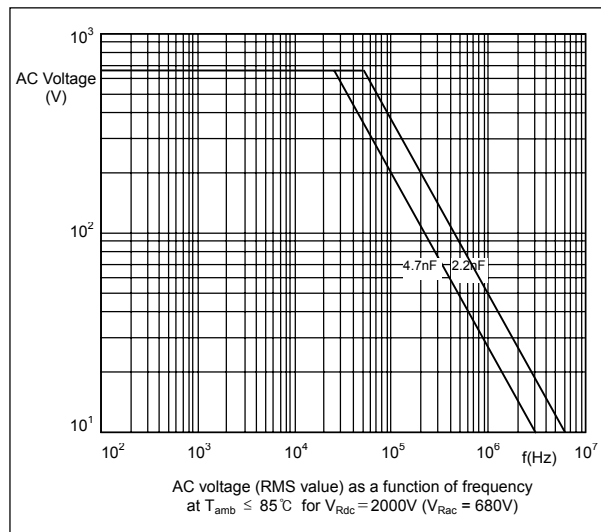
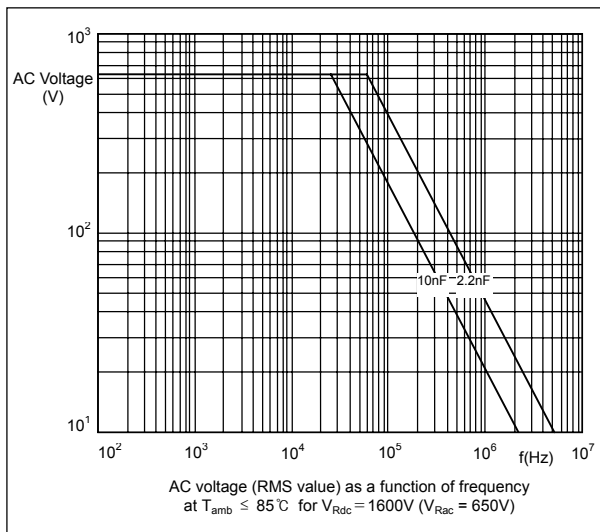


AC and Pulse

Double Side Metallized Polypropylene film Capacitors

PCMP 384

MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY



AC and Pulse Double Side Metallized Polypropylene film Capacitors

APPLICATION NOTE AND LIMITING CONDITIONS

These capacitors are not suitable for mains application as across-the-line capacitors without additional protection.

To select the capacitor for a certain application, the following conditions must be checked :

1. The peak voltage (V_p) shall not be greater than the rated DC voltage (V_{Rdc}).
2. The peak-to-peak voltage (V_{p-p}) shall not be greater than the maximum V_{p-p} to avoid the ionisation inception level.
3. The voltage pulse slope (dV/dt) shall not exceed the rated voltage pulse slope in an RC-circuit at rated voltage and without ringing. If the pulse voltage is lower than the rated DC voltage, the rated voltage pulse slope may be multiplied by V_{Rdc} and divided by the applied voltage.
For all other pulses following equation must be fulfilled :

$$2 \times \int_0^T \left(\frac{dU}{dt} \right) \times dt < U_{Rdc} \times \left(\frac{dU}{dt} \right)_{\text{rated}}$$

T is the pulse duration.

4. The maximum component surface temperature rise must be lower than the limits.

Voltage conditions for aboves.

ALLOWED VOLTAGES	$T_{\text{amb}} \leq 85^{\circ}\text{C}$	$85^{\circ}\text{C} < T_{\text{amb}} \leq 105^{\circ}\text{C}$
Maximum continuous RMS voltage	V_{Rac}	$0.75 \times V_{\text{Rac}}$
Maximum temporary RMS over voltage (<24 hours)	$1.25 \times V_{\text{Rac}}$	$1.0 \times V_{\text{Rac}}$
Maximum peak voltage (V_{o-p}) (<2s)	$1.6 \times V_{\text{Rdc}}$	$1.1 \times V_{\text{Rac}}$

AC and Pulse Double Side Metallized Polypropylene film Capacitors

PRODUCT MARKING

The capacitors are marked on the top and side or on the top with the following information :

- . Rated capacitance in code according to IEC 60062
- . Tolerance on rated capacitance J = $\pm 5\%$ A = $\pm 3.5\%$
- . Rated DC voltage or rated AC voltage (e.g. 1000 V or 700Vac)
- . Manufacturer's type designation (384)
- . Code for dielectric material (MMKP)
- . Manufacturer's name (PILKOR)
- . Year and week of manufacture (e.g. 0301)

Example of marking

Pitch = 10.0 mm

4n7 J 630V 384 MMKP PILKOR

Marking on the side

Pitch = 15.0 mm

33n J 1000V 384 MMKP

Marking on the top

PILKOR WK.....

Marking on the side

at 400Vac

20n J 630V 384 MMKP 400~

PILKOR WK.....

at 700Vac

12n J 2000V 384 MMKP 700~

PILKOR WK.....

Pitch $\geq$ 22.5 mm

47n J 1000V 384 MMKP

Marking on the top

PILKOR WK....

Marking on the side

at 400Vac

110n J 630V 384 MMKP 400~

PILKOR WK.....

or

47n J 1000V 384 MMKP	PILKOR WK....
-------------------------	------------------

Marking on the top