



Dielectric		Style		Type	Application	Page
Metallized Polyester Film Capacitors	Metallized Polyester	MKT	(Dipped)	PCMT 365/366/367	<ul style="list-style-type: none"> Blocking Coupling Bypass Energy reservoir 	19
		MKT	(Box)	PCMT 468		20
EMI Suppression Film Capacitors	Metallized Polypropylene	MKP	(Box)	PCX2 339 (MINI) (X2)	<ul style="list-style-type: none"> SMPS EMI Filters E – Ballast Dom. Appliance 	21
				PCX2 339 (X2)		
				PCX2 337 (MINI) (X2)		
				PCX2 337 (X2)		
		MKP	(Box)	PCX1 331 (440Vac) (X1)	<ul style="list-style-type: none"> Industrial 	22
				PCX1 331 (480Vac) (X1)		
				PCY2 130 (Y2)		
				PCRC 420 (RC Unit)	<ul style="list-style-type: none"> Noise Suppressor Spark Quenching 	23
Series Impedance Capacitors	Metallized Polyester	MKT	(Box)	PCX2 347	<ul style="list-style-type: none"> capacitive power supply 	24
Metallized Polypropylene Film Capacitors	Metallized Polypropylene	MKP	(Box)	PCMP 389	<ul style="list-style-type: none"> High Frequency High Current 	25
	Double Side Metallized Polypropylene	MMKP	(Box)	PCMP 384	<ul style="list-style-type: none"> High Frequency High Pulse High Current 	26
PFC Input Capacitors	Metallized Polypropylene	MKP	(Box)	PCMP 372	<ul style="list-style-type: none"> PFC Input 	27
		MKP	(Box)	PCMP 352	<ul style="list-style-type: none"> PFC Input 	
Power Electronic Capacitors	Metallized Polypropylene	MMKP	(Box)	PCPW 237	<ul style="list-style-type: none"> Snubber Capacitor For IGBT 	28
		MMKP	(Box)	PCPW 238	<ul style="list-style-type: none"> Snubber Capacitor For IGBT SMPS 	29
		MKP	(Box)	PCPW 226	<ul style="list-style-type: none"> DC-Link Switching Applications 	30
		MKP (pattern Film)	(Box)	PCPW 246	<ul style="list-style-type: none"> DC-Link (High cap. Density) HEV/EV LDC, OBC Inverter circuit in appliances 	31
		MKP	(Box)	PCPW 255	<ul style="list-style-type: none"> Output AC filtering Solar inverters Motor drivers Automotive 	32
		Metallized Polyester	MKT	(Box)	PCPW 223	<ul style="list-style-type: none"> Blocking Coupling Bypass Filtering Energy reservoir Automotive
DC-Link For Automotive	Metallized Polypropylene	MKP (pattern Film)	Customized (Bus-plate)	PCHM 912	<ul style="list-style-type: none"> Inverter DC-Link (Automotive & Renewable energy) 	34


		PCMT 365/366/367									
		Page 37									
											
Dielectric	metallized polyester										
Encapsulation	epoxy lacquered (dipped)										
Qualified to Approvals	IEC 60384-2										
Climatic category	55/105/56										
Packaging	loose ; taped										
Tolerance	± 5% ; ± 10%										
Capacitance(μF) (*)	V _{Rdc} (V)										
	63		100		250		400		630		
0.001											
0.0015											
0.0022											
0.0033											
0.0047											
0.0068											
0.01											
0.015									5.08	7.62	
0.022											
0.033											
0.047											
0.068											
0.1											
0.15											
0.22											
0.33											
0.47											
0.68											
1.0											
1.5											
2.2											
3.3											
4.7											
6.8											
10											
15											

(*) Intermediate values of E12 series are also available

Pitch size (mm) : 

Metallized Polyester



Selection Guide

PCMT 468
Page 67


Dielectric	metallized polyester				
Encapsulation	potted with epoxy resin				
Qualified to Approvals	IEC 60384-2				
Climatic category	55/105/56				
Packaging	loose ; taped				
Tolerance	± 5% ; ± 10%				
Capacitance(μF)	V_{Rdc} (V)				
(*)	100	250	400	630	1000
0.001					
0.0012					
0.0015					
0.0018					
0.0022					
0.0033					
0.0047					
0.0068					
0.0082					
0.01					
0.012					
0.015					
0.018					
0.022					
0.033					
0.047					
0.068					
0.082					
0.1					
0.12					
0.15					
0.18					
0.22					
0.33					
0.47					
0.68					
0.82					
1.0	10.0				
1.2					
1.5	15.0				
1.8					
2.2					
3.3					
4.7					
6.8					
8.2					
10					
12					



(*) Intermediate values of E12 series are also available

Pitch size (mm) :

	PCX2 339				PCX2 337				
	Page 83				Page 99				
									
Class	X2								
Dielectric	metallized polypropylene								
Encapsulation	potted with epoxy resin								
Qualified to Approvals	IEC 60384-14 and EN 60384-14								
Climatic category	55/110/21 55/105/21				40/105/21 40/100/21				
tanδ (10kHz)	≤ 70 X 10 ⁻⁴				≤ 70 X 10 ⁻⁴				
Rins for C ≤ 330nF RC for C > 330nF	> 15 000 MΩ > 5 000 s				> 15 000 MΩ > 5 000 s				
Pulse slop at V _R	100 V/μs				100 V/μs				
Packaging	loose ; taped				loose ; taped				
Tolerance	± 10% ; ± 20%				± 10% ; ± 20%				
Capacitance(μF)	V _{Rac} (V)				V _{Rac} (V)				
(*)	305				275				
0.001	10.0								
0.0015									
0.0022									
0.0033									
0.0047									
0.0068									
0.01									
0.015									
0.022									
0.033									
0.047									
0.068									
0.1									
0.15									
0.22									
0.33									
0.47									
0.68									
1.0									
1.5									
2.2									
3.3									
4.7									
6.8									
10									

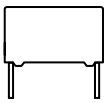
(*) Intermediate values of E6 series are also available

Pitch size (mm) : 


	PCX1 331			PCY2 130		
	Page 115		Page 123	Page 131		
						
Class	X1			Y2		
Dielectric	metallized polypropylene					
Encapsulation	potted with epoxy resin					
Qualified to Approvals	IEC 60384-14 and EN 60384-14					
Climatic category	55/105/21		55/110/21		55/105/21	
tanδ (10kHz)	≤ 70 X 10 ⁻⁴			≤ 20 X 10 ⁻⁴		
Rins for C ≤ 330nF	> 15 000 MΩ			> 15 000 MΩ		
RC for C > 330nF	> 5 000 s			> 5 000 s		
Pulse slop at V _R	100 V/μs			100 V/μs		
Packaging	loose ; taped			loose ; taped		
Tolerance	± 10% ; ± 20%			± 10% ; ± 20%		
Capacitance(μF)	V _{Rac} (V)			V _{Rac} (V)		
(*)	440		480		300	
0.001						
0.0015						
0.0022						
0.0033						
0.0047						
0.0068						
0.01					10.0	
0.015						
0.022						
0.033	15.0		15.0		15.0	
0.047						
0.068		22.5		22.5		22.5
0.1						
0.15						
0.22						
0.33			27.5			27.5
0.47				27.5		
0.68						
1.0						
1.5						
2.2						
3.3						
4.7						

(*) Intermediate values of E6 series are also available

Pitch size (mm) : 

		PCRC 420	
		Page 139	
			
Class		X2, RC unit	
Dielectric		metallized polypropylene	
Encapsulation		potted with epoxy resin	
Qualified to Approvals		IEC 60384-14	
Climatic category		40/085/21	
R_{ins} for C ≤ 1uF		> 30 000 MΩ	
Packaging		loose ; taped	
Tolerance		C-tol ; ± 20% & R-tol ; ± 10%	
		V_{Rdc} (V)	
Capacitance(μF)	Combinating Resistance(Ω)	250	
0.033	22	15.0	
	47		
	120		
0.047	22		
	47		
	120		
0.068	22		
	47		
	120		
0.1	22		
	47		
	120		
0.15	22		
	47		
	120		
0.22	22		
	47		
	120	17.5	

Pitch size (mm) : 

	PCX2 347			
	Page 149			
				
Class	X2			
Dielectric	metallized polyester			
Encapsulation	potted with epoxy resin			
Qualified to Approvals	IEC 60384-14 and UL60384-14			
Climatic category	55/110/56			
tanδ (10kHz)	≤ 150 X 10⁻⁴			
Rins for C ≤ 330nF RC for C > 330nF	> 15 000 MΩ > 5 000 s			
Pulse slop at V_R	100 V/μs			
Packaging	loose ; taped			
Tolerance	± 10% ; ± 20%			
Capacitance(μF)	V_{Rac} (V)			
(*)	310			
0.01	10.0			
0.015				
0.022				
0.033				
0.047				
0.068				
0.1		15.0		
0.15				
0.22				
0.33				
0.47		22.5		
0.68				
1.0				
1.5			27.5	
2.2				

(*) Intermediate values of E6 series are also available


Pitch size (mm) : 

Metallized Polypropylene

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PCMP 389

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Dielectric	metallized polypropylene						
Encapsulation	potted with epoxy resin						
Qualified to Approvals	IEC 60384-17						
Climatic category	55/105/56						
Packaging	loose ; taped						
Tolerance	± 5%						
Capacitance(μF)	V_{Rdc} (V)						
	250	400	630	1000	1250	1600	2000
(*)							
0.00082							
0.0010							
0.0022							
0.0039							
0.0047							
0.0056							
0.0068							
0.0082							
0.01							
0.012							
0.015							
0.018							
0.022							
0.027							
0.033							
0.039							
0.047							
0.056							
0.068							
0.082							
0.1	10.0						
0.12							
0.15							
0.18							
0.22							
0.27							
0.33							
0.39							
0.47							
0.56							
0.68							
0.82							
1.0							
1.2							
1.5							
1.8							
2.2							
2.7							
3.3							
3.9							


(*) Intermediate values of E24 series are also available

Pitch size (mm) :

Metallized Polypropylene

Selection Guide



PCMP 384
Page 181



Dielectric	double side polyester carrier and polypropylene										
Encapsulation	potted with epoxy resin										
Qualified to Approvals	IEC 60384-17 / 16										
Climatic category	55/105/56										
Packaging	loose ; taped										
Tolerance	± 5% ; ± 10%										
Capacitance(μF)	V_{Rdc} (V)										
(*)	250	400	630 (250V _{Rac})	630 (400V _{Rac})	800	1000	1250	1600	2000 (680V _{Rac})	2000 (700V _{Rac})	2500
0.00022											
0.00047											
0.00068											
0.00082											
0.001											
0.0018											
0.0022											
0.0033											
0.0039											
0.0047											
0.0056											
0.0068											
0.0082											
0.01											
0.012											
0.015											
0.018											
0.022											
0.027											
0.033											
0.039											
0.047											
0.056											
0.068											
0.082											
0.1											
0.12											
0.15											
0.18											
0.22											
0.27											
0.33											
0.39											
0.47											
0.56											
0.68											
0.82											


(*) Intermediate values of E24 series are also available

Pitch size (mm) : 


	PCMP 372			PCMP 352				
	Page 209			Page 217				
								
Dielectric	metalized polypropylene			metalized polypropylene				
Encapsulation	potted with epoxy resin			potted with epoxy resin				
Qualified to Approvals	IEC 60384-16			IEC 60384-16				
Climatic category	40/105/21			40/105/21				
Packaging	loose ; taped			loose ; taped				
Tolerance	± 5% ; ± 10%			± 5% ; ± 10%				
Capacitance(μF) (*)	V _{Rdc} (V)			V _{Rdc} (V)				
	450 mini / 500 mini		630 mini	450				
0.022				10.0				
0.033								
0.047								
0.068								
0.082								
0.1	10.0				15.0			
0.15								
0.22		15.0				10.0		
0.33								
0.47			22.5		15.0		15.0	
0.56								
0.68								
0.82								
1.0								
1.2								
1.5								
2.2								

(*) Intermediate values of E6 series are also available

Pitch size (mm) : 


	PCPW 237				
	Page 229				
					
Dielectric	double side polyester carrier and polypropylene				
Encapsulation	potted with epoxy resin				
Qualified to Approvals	IEC 60384-16 / IEC 61071				
Climatic category	40/105/56				
Packaging	arrange				
Tolerance	± 5% ; ± 10%				
Capacitance(μF)	V_{Rdc} (V)				
	850	1000	1250	1600	850
0.33				37.5	
0.47					
0.56					37.5
0.68			37.5		
1.0		37.5	37.5		52.5
1.5	37.5	37.5		52.5	
2.0	37.5		52.5		
2.2	37.5				
3.3		52.5			
4.7	52.5				


Pitch size (mm) : 


PCPW 238
Page 237



Dielectric	double side polyester carrier and polypropylene									
Encapsulation	potted with epoxy resin									
Qualified to Approvals	IEC 60384-16 / IEC 61071									
Climatic category	40/105/56									
Packaging	arrange									
Tolerance	± 5% ; ± 10%									
Capacitance(μF)	$V_{Rdc} (V)$									
	850		1000		1250		1600		2000	
	2-pin	4-pin	2-pin	4-pin	2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
0.15										
0.18									32.5	
0.20										
0.22										
0.30										
0.33										
0.47										
0.56										
0.68										
0.82										
1.0										
1.5										
2.2										
3.3										


Pitch size (mm) : 

		PCPW 226			
		Page 245			
					
Dielectric	metalized polypropylene				
Encapsulation	potted with epoxy resin				
Qualified to Approvals	IEC 60384-16 / IEC 61071				
Climatic category	40/105/56				
Packaging	loose ; arrange				
Tolerance	± 5% ; ± 10%				
Capacitance(μF)	V _{Rdc} (V)				
	250	450	630	900	
1.0	27.5	27.5	27.5	27.5	27.5
1.5					
2.0					
2.2					
3.0					
3.3	37.5	37.5	37.5	37.5	
3.9					
4.7					
5.0					
5.6					
6.8	37.5	37.5	37.5	37.5	
8.0					
10					
15					
20					
22	37.5	37.5	37.5	37.5	
30					
33					
39					

Pitch size (mm) : 


PCPW 246																	
Page 253																	
																	
Dielectric	metallized polypropylene																
Encapsulation	potted with epoxy resin																
Qualified to Approvals	IEC 60384-16 / IEC 61071																
Climatic category	40/105/56																
Packaging	arrange																
Tolerance	± 5%																
Capacitance(μF)	V _{Rdc} (V)																
	<table border="1"> <thead> <tr> <th colspan="2">450</th> <th colspan="2">700</th> <th colspan="2">900</th> <th colspan="2">1100</th> </tr> <tr> <th>2-pin</th> <th>4-pin</th> <th>2-pin</th> <th>4-pin</th> <th>2-pin</th> <th>4-pin</th> <th>2-pin</th> <th>4-pin</th> </tr> </thead> </table>	450		700		900		1100		2-pin	4-pin	2-pin	4-pin	2-pin	4-pin	2-pin	4-pin
	450		700		900		1100										
2-pin	4-pin	2-pin	4-pin	2-pin	4-pin	2-pin	4-pin										
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
12																	
15																	
18																	
20																	
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25																	
30																	
35																	
40																	
45																	
50																	
55																	
60																	
75																	
100																	
110																	
120																	
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150																	


Pitch size (mm) : 

PCPW 255
Page 263


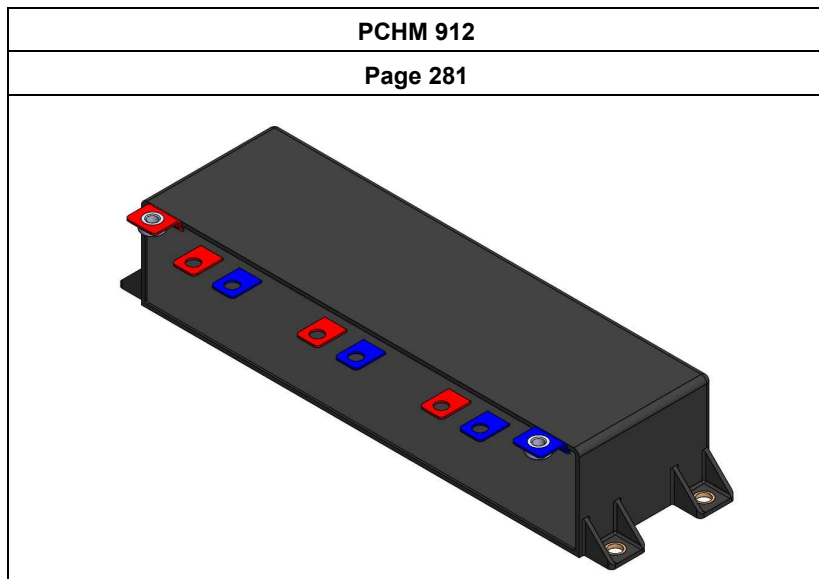
Dielectric	metalized polypropylene
Encapsulation	potted with epoxy resin
Qualified to Approvals	IEC 61071
Climatic category	40/85/56
Packaging	loose ; arrange
Tolerance	± 5% ; ± 10%

Capacitance(μF)	V _{Rac} (V)												
	250 (500V _{Rdc})			300 (550V _{Rdc})			350 (630V _{Rdc})			400 (700V _{Rdc})			450 (900V _{Rdc})
	2-pin	2-pin 4-pin	4-pin	2-pin	2-pin 4-pin	4-pin	2-pin	2-pin 4-pin	4-pin	2-pin	2-pin 4-pin	4-pin	2-pin 4-pin
1.0													
1.5													
2.0													
2.5	27.5												
2.8													
3.0													
3.5													
3.6													
4.0				27.5									
5.0													
6.0													
7.0													
7.5													
8.0													
8.5													
9.0													
9.5													
10.0													
11.0													
12.0													
13.0													
14.0													
15.0													
17.0													
18.0													
19.0													
20.0		37.5											
22.0													
24.0													
25.0													
28.0													
30.0													
35.0													
40.0													
45.0													
55.0													

Pitch size (mm) : 

	PCPW 223			
	Page 273			
				
Dielectric	metalized polyester			
Encapsulation	potted with epoxy resin			
Qualified to Approvals	IEC 60384-2			
Climatic category	40/105/21			
Packaging	loose			
Tolerance	± 10%			
Capacitance(μF)	V_{Rdc} (V)			
	35		100	
2.2	15.0			15.0
3.3				
4.7				
5.6				
6.8				
8.2				
9.4				
19.0		20.0	22.5	
22.0				22.5

Pitch size (mm) : 



Dielectric	metallized polypropylene
Capacitance Range (uF)	< 5000uF (customer specific design)
Tolerance	± 5%
Rated Voltage (Vdc)	450 ~ 1100Vdc
Qualified to Approvals	IEC 61071
Operating temperature range	-40 °C ~ 105 °C
Climatic category	40/105/56
Rated current	< 400Arms
Self inductance	< 20nH at 1MHz
Packaging	User specific