Product Approval Sheet							
Customer : Ropla							
	Issued no : 2020. 07. 23. Revision no :						
 Product desc Product code Application : 	 Product description : EMI Suppression film capacitors Product code : PCY2 130J30224 Application : 						
CUSTOME	R						
	Checked	Confirmed	Approved				
PILKOR		3	Nor				
Headquarters : 381, Woncheon-dong, Yeong tong-gu, Suwon-si, Gyeonggi-do, Korea PILKOR Electronics Division (of COWELL Fashion Co., Ltd.) TEL. +82-31-217-2500 FAX. +82-31-217-7465							
China factory : No 25 Zoutai South Road Rongcheng City, Shandong Province China Rongcheng PILKOR Electronics Co., Ltd.							
TEL. +86-631-755-6001~3 FAX. +86-631-755-6004 * Please send it back to us before placing order.							



* Construction

TYPE SPECIFICATION

PILKOR ELECTRONICS

Capacitor as PCY2 130



dt = 0.8+0.08/-0.05mm

Voltage V~	Cap . μF	Code PCY2 130	C-tol.	Dimensions b \times h \times l mm	P mm	Lt mm
300	0.22	J30224	±20 %	16.5 x 22.0 x 26.0	22.5±0.4	5.0±1.0
300	0.22	J3C224	±20 %	16.5 x 22.0 x 26.0	22.5±0.4	3.2±0.3
300	0.22	J3A224	±20 %	16.5 x 22.0 x 26.0	22.5±0.4	3.4 ± 0.3
300	0.22	J3R224	±20 %	16.5 x 22.0 x 26.0	22.5±0.4	3.7±0.3
300	0.22	J3J224	±20 %	16.5 x 22.0 x 26.0	22.5±0.4	3.8±0.3

Same as PCY2 130J30154

<BUT>

- Value Extension : Capacitance 0.22uF
- Dimension : 16.5 x 22.0 x 26.0
- Packing Method : Loose in box

Packing method	SPQ	PQ
9242 450 40025	250	1000
0242 4 <u>5</u> 0 40025	(8242 451 30201)	(8242 451 30291)

Safety

MKP RADIAL POTTED CAPACITORS

Pitch 10.0/15.0/22.5/27.5mm



QUICK REFERENCE DATA

Capacitance range(E6 series) *	0.001 µF to 0.47 µF
Capacitance tolerance	± 10 %, ± 20 %
Rated (AC) voltage 50 to 60 Hz	300 V~
Climatic category	55/105/21
Temperature range	-55°C ~ +105°C
Reference IEC specification	IEC 60384-14(3rd edition) and EN 60384-14
Safety approvals	UL 60384-14 & CSA E60384-14:09(cUL),
	ENEC, KC, CQC
Potting & Encapsulation material	Qualified in accordance with UL 94V-0
Safety class	Y2

*Intermediate values of the E12 series are available to special order

FEATURES	APPLICATIONS
 . 10 to 27.5 mm lead pitch . Supplied loose in box and taped on reel . Consist of a low-inductive wound cell of Metallized Polypropylene film, potted in a flame retardant case 	. For Y2-electromagnetic interference suppression . Specially designed to meet the NEW REQUIREMENTS in new IEC 60384-14 specification(3rd edition)/EN 60384-14/UL60384-14 requiring for Y2 a 5kV peak pulse voltage test

• Please refer to caution and warning at <u>http://www.pilkor.co.kr/sub/download/Introductions.pdf</u> before using these products.

TYPE SPECIFICATION

Safety

Ordering Information





	Available versions					Produ	ct (I _{max})	
codo	Packing	C - tol	Lead length	Hole to hole	12.5	18.0	26.0	31.0
coue	method	C = 101.	& Height	(P₀)		Pitc	h (P)	
0	Loose in box	±20%	lt = 5.0±1.0mm		10.0	15.0	22.5	27.5
1	Loose in box	±10%	lt = 5.0±1.0mm		10.0	15.0	22.5	27.5
4	Loose in box	±20%	lt =25.0±2.0mm		10.0	15.0	22.5	27.5
5	Loose in box	±10%	lt =25.0±2.0mm		10.0	15.0	22.5	27.5
6	Ammopack	±20%	H = 18.5mm*	12.7mm	10.0	15.0	22.5	27.5
7	Ammopack	±10%	H = 18.5mm*	12.7mm	10.0	15.0	22.5	27.5

* H ; intape height ; for detailed specifications refer to chapter PACKAGING ** Some values is not following the coding rule.

TYPE SPECIFICATION



SAFETY APPROVALS

SAFETY APPROVALS	Voltage	Value	File Number	
UL 60384-14 &	200\/(AC)	1 nE to 170 nE	E165646	
CSA E60384-14:09(cUL)	300V(AC)	111 (047011	E 103040	
ENEC*(SEMKO)	300V(AC)	1 ^{nF} to 470 ^{nF}	SE/0256-5	
KC	300V(AC)	$C \le 0.1 \mu F$ $0.1 \mu F < C \le 0.33 \mu F$ $0.33 \mu F < C \le 1.0 \mu F$	SH03001-17003 SH03001-17004 SH03001-17005	
CQC	300V(AC)	1 ^{nF} to 470 ^{nF}	CQC15001121967	

* The ENEC-approval together with the CB-Certificate replace all national approval marks of the following countries(they have already signed the ENEC-Agreement): Austria; Belgium; Czech. Republic; Denmark; Finland; France; Germany; Greece; Hungary; Ireland; Italy; Luxembourg; Netherlands; Norway; Portugal; Slovenian; Spain; Sweden; Switzerland and United Kingdom

* Approval number (File No.) of safety regulations are subject to revision without notice

Packaging Information

SMALLEST PACKING QUANTITIES (SPQ)	LOOSE	IN BOX
DIMENSIONS	lt = 5.0 ± 1.0 mm	lt = 25 ± 2.0 mm
4.0 x 10.0 x 12.5	2000	1200
5.0 x 11.0 x 12.5	1500	1000
6.0 x 12.0 x 12.5	1000	1000
5.0 x 11.0 x 18.0	1000	1000
6.0 x 12.0 x 18.0	1000	1000
7.0 x 13.5 x 18.0	1000	1000
8.5 x 15.0 x 18.0	1000	1000
10.0 x 16.5 x 18.0	1000	1000
7.0 x 16.5 x 26.0	1000	1000
8.5 x 18.0 x 26.0	1000	1000
10.0 x 19.5 x 26.0	500	500
12.0 x 22.0 x 26.0	500	500
13.0 x 23.0 x 31.0	250	250
15.0 x 25.0 x 31.0	250	250
18.0 x 28.0 x 31.0	200	200
21.0 x 31.0 x 31.0	150	150

TYPE SPECIFICATION



SPECIFIC REFERENCE DATA FOR 300 V_{AC}

Tangent of loss angle	at 1 khz at 10 khz at 10		at 100kHz	
	\leq 10 x 10 ⁻⁴	\leq 20 x 10 ⁻⁴	\leq 100 x 10 ⁻⁴	
Rated voltage pulse slope (dV/dt) _R P = 10.0mm P = 15.0mm P = 22.5mm P = 27.5mm	800 V/µs 600 V/µs 500 V/µs 400 V/µs			
R between leads, for C $\leq 0.33 \mu$ Fat 100V 1min	> 15 000 MΩ			
RC between leads, for C > 0.33μ Fat 100V 1min	≥ 5 000 s			
R between leads and case ; 100V 1min	> 30 000 MΩ			
Withstanding(DC) Voltage (cut-off current 10mA)	3400V ; 1 min			
Withstanding(AC) Voltage between leads and case	2400V ; 1 min			

V_{Rac} = 300 V[~] Y2

loose and taped

			CATALOGUE NUMBER				
				PCY2 1	130		
Cap.	bxhxl	Mass	loose in box				
(<i>μ</i> F)	(mm)	(g)	lt = 5 ±	1.0 mm	lt = 25 ±	2.0 mm	
			C – tol. ±20 %	C – tol. ±10 %	C – tol. ±20 %	C – tol. ±10 %	
Pitch = 10.0 ± 0.4 mm dt = 0.6			t = 0.6 +0.06/-0	.05 mm			
0.001	4.0 x 10.0 x 12.5	0.8	D30102	D31102	D34102	D35102	
0.0015	4.0 x 10.0 x 12.5	0.8	D30152	D31152	D34152	D35152	
0.0022	4.0 x 10.0 x 12.5	0.8	D30222	D31222	D34222	D35222	
0.0033	4.0 x 10.0 x 12.5	0.8	D30332	D31332	D34332	D35332	
0.0047	5.0 x 11.0 x 12.5	0.9	D30472	D31472	D34472	D35472	
0.0068	5.0 x 11.0 x 12.5	0.9	D30682	-	D34682	-	
0.0068	6.0 x 12.0 x 12.5	1.0	-	D31682	-	D35682	
0.01	6.0 x 12.0 x 12.5	1.0	D30103	D31103	D34103	D35103	
	Pitch = 1	5.0 ± 0	.4 mm c	mm dt = 0.8 +0.08/-0.05 mm			
0.0068	5.0 x 11.0 x 18.0	1.2	F30682	F31682	F34682	F35682	
0.01	5.0 x 11.0 x 18.0	1.2	F30103	F31103	F34103	F35103	
0.015	6.0 x 12.0 x 18.0	1.4	F30153	F31153	F34153	F35153	
0.022	7.0 x 13.5 x 18.0	1.9	F30223	F31223	F34223	F35223	
0.033	8.5 x 15.0 x 18.0	2.6	F30333	F31333	F34333	F35333	
0.047	10.0 x 16.5 x 18.0	3.1	F30473	F31473	F34473	F35473	

TYPE SPECIFICATION

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V _{Rac} = 300	~ Y2				loc	ose and taped
				CATALOGU	IE NUMBER	
				PCY2	130	
Cap.	bxhxl	Mass		loose	in box	
(µÉ)	(mm)	(g)	lt = 5 ±	1.0 mm	lt = 25 ±	2.0 mm
			C – tol. ±20 %	C – tol. ± 10 %	C – tol. ±20 %	C – tol. ± 10 %
	Pitch = $22.5 \pm 0.4 \text{ mm}$ dt = $0.8 + 0.08 - 0.05 \text{ mm}$					
0.047	7.0 x 16.5 x 26.0	3.2	J30473	J31473	J34473	J35473
0.068	8.5 x 18.0 x 26.0	4.4	J30683	J31683	J34683	J35683
0.1	10.0 x 19.5 x 26.0	5.5	J30104	J31104	J34104	J35104
0.15	12.0 x 22.0 x 26.0	8.0	J30154	J31154	J34154	J35154
	Pitch = 2	7.5 ± 0	.4 mm	dt = 0.8 +0.08/-0	.05 mm	
0.22	13.0 x 23.0 x 31.0	10.4	L30224	-	L34224	-
0.22	15.0 x 25.0 x 31.0	12.8	-	L31224	-	L35224
0.33	18.0 x 28.0 x 31.0	17.2	L30334	L31334	L34334	L35334
0.47	21.0 x 31.0 x 31.0	20.4	L30474	L31474	L34474	L35474

Original pitch	New Code	Old Code	Example
10.0mm	PCY2 130Dxxxxx	PCY2 130 3xxxx	
15.0mm	PCY2 130Fxxxxx	PCY2 130 4xxxx	PCY2 130 60474
22.5mm	PCY2 130Jxxxxx	PCY2 130 5xxxx	=> PCY2 130L30474
27.5mm	PCY2 130Lxxxxx	PCY2 130 6xxxx	

TYPE SPECIFICATION



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. For detailed specifications refer to chapter "PACKAGING".

SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

In order to withstand vibration and shock tests, it must be ensured that the stand-off pips are in good contact with the printed-circuit board.

. For pitches of 15mm the capacitors shall be mechanically fixed by leads.

. For larger pitches the capacitors shall be mounted in the same way and the body clamped.

SPACE REQUIREMENTS ON PRINTED-CIRCUIT BOARD

The maximum length and width of film capacitors are shown in the following drawing ;



- Eccentricity as in drawing.

The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

- Product height with seating plane as given by IEC 60717 as reference : $h_{max} \leq h+0.3 \text{ mm}$

STORAGE TEMPERATURE

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

TYPE SPECIFICATION

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RATINGS AND CHARACTERISTICS

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

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

Maximum RMS Voltage as a function of frequency



TYPE SPECIFICATION



PRODUCT MARKING

Capacitors are marked with having following information;

- 1.Manufacturer (PILKOR)
- 2. Manufacturer's type designation (130 or PCY2 130)
- 3.Rated capacitance in code according to IEC 60062
- 4.Rated (AC) voltage (300V~)
- 5.Sub class (Y2)
- 6.Tolerance on rated capacitance M = \pm 20 % K = \pm 10 %
- 7.Climatic category (55/105/21)
- 8.Code for dielectric material (MKP)
- 9. Year and week of manufacturing (e.g. 1301)
- 10.Safety approvals
- * white or black color

Example of marking



Marking on the side or top



Marking on the side or top



470n M 300V~ Y2 PCY2 130 MKP PILKOR 1501 55/105/21

Marking on the top

TYPE SPECIFICATION

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PACKAGE MARKING

The package containing the capacitors in marking as shown.

For 4E/6E/9E/11E

PILKOR Electronics	www.pil	lkor.co.kr
INTERF. SUPPR. FILM MKP RADIAL POTTED $0.1 \mu F \pm 20\% 300V^{-1}$	CAPACIT TYPE 55/10	OR Y2 5/21
EN60384-14 KC File No.	.ec	
BATCH NO 539	4001	DATE 1501
2000	PC	Y2 130D30152

LINE MARKING EXPLANATION

- 1. Manufacturer's name
- 2. Sub-family
- 3. Type description and safety class Y2
- 4. Capacitance value, tolerance, voltage and climatic category (IEC)
- 5. Safety approvals & Lead free marking (JEDEC-STD-97)
- 6. Batch Nr & production period year and week code
- 7. Quantity and product code (12NC)

*** Color of Label : Light green

Color of Safety Marking : Red

TYPE SPECIFICATION

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INSPECTION REQUIREMENTS

- Note 1 : Sub-clause numbers of tests and performance requirements refer to the Sectional
- Specification, IEC 384-14 and Section One this specification.
- Note 2 : Inspection levels are selected from IEC-Publication 410: Sampling Plans and Procedures for inspection by attributes.

Note 3 : In this table : p = periodicity in months

- n = sample size
- D = destructive
- ND = non-destructive
- IL = inspection level) IEC 410

AQL = acceptance quality level

Note 4 : For this capacitors, considered as a solid construction, the periodicity of the vibration and shock test is reduced from 36 months to 6 months.

CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	IL	n	PERFORMANCE REQUIREMENTS
Group A inspection (lot by lot)					
Sub-group A1	ND				
4.1 Visual examination		Dotail	S4	1)	No visual damage Legible marking and as specified in MARKING specification AS specified in Table 1 of this specification.
Sub-group A2 3)				"	
4 2 2 canacitance	ND	at 1 khz			Within specified tolerance
4.2.3 Tangent of loss angle		at 10 khz C \leq 1 uF			As in RATINGS AND CHARACTERISTICS of this specification
4.2.1 Voltage proof (test A)		at 1500 V(a.c) for 1 min.			No permanent breakdown or flashover. Self healing allowed
4.2.5 Insulation resistance (test A)		at 100 V 1min.			As in RATINGS AND CHARACTERISTICS of this specification

- Number to be tested : Sample size as directly allotted to the code letter for IL in Table 2A of IEC 410 (Single sampling plan for normal inspection) The acceptance number complies with AQL value : 0.65 %
- 2) This test may be replaced by in-production testing, if SPC on dimensional measurements or other mechanisms to avoid parts exceeding the limits is installed.
- 3) The 100% End-of-line testing is followed by re-inspection by sampling in order to monitor outgoing quality level by defectives per million (DPM). The sampling level and the calculation of DPM values is in accordance with CECC 00 014, counting any parametric failure as a defective. In case one or more defectives occur in a lot, this lot shall be rejected.

TYPE SPECIFICATION

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CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	n	PERFORMANCE REQUIREMENTS
Group C inspection	D		6	
Sub-group C1A part of a sample of sub-group C1				
4.1 Dimensions (detail)				As specified in Table 1 of
4.3.1 Initial measurements		Capacitance		
		Tangent of loss angle at 10 khz C ≤ 1 uF		
4.3 Robustness of terminations		Tensile and bending		No visible damage
4.4 Resistance to soldering heat		Method : 1A Solder bath : 260℃ Duration : 10 s		
4.14 Component solvent resistance		Isopropylalcohol at room temperature. Method : 2 Immersion time: 5±0.5 min Recovery time : min 1 hour max 2 hours		
4.4.2 Final measurements		Visual examination		No visible damage Legible marking
		Capacitance		Δ C/C \leq 5% of the value measured initially
		Tangent of loss angle at 10 khz C ≤ 1 uF		Increase of tan-delta : for C ≤ 1 uF ∆ tan d < 0.0080
		Insulation resistance		As in RATINGS AND CHARACTER-ISTICS of this specification
Sub-group C1B Other part of sample of sub-group C1	D		12	
4.6.1 Initial measurements		Capacitance		
		Tangent of loss angle at 10 khz C ≤ 1 uF		
4.6 Rapid change of temperature		 θ A=lower category temperature θ B=upper category temperature 5 cycles Duration t = 30 min. 		
4.6.1 Inspection		Visual examination		No visible damage

TYPE SPECIFICATION



CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	n	PERFORMANCE REQUIREMENTS
4.7 Vibration (see note 4)		Method of mounting : see MOUNTING of this specification Procedure B4 Frequency range : 10Hz to 55 Hz Amplitude : 0.75mm or acceleration 98m/s ² (whichever is less severe) Total duration : 6h		
4.7.2 Final inspection		Visual examination		No visible damage
4.9 Shock (see note 4)		Method of mounting : see MOUNTING of this specification Pulse shape : half sine Acceleration : 490 m/s ² Duration of pulse : 11 ms		
4.9.3 Final measurements		Visual examination		No visible damage
		Capacitance		Δ C/C \leq 5% of the value measured initially
		Tangent of loss angle at 10 khz C ≤ 1 uF		Increase of tan-delta : for C ≤ 1 uF ∆ tan d
		Insulation resistance		As in RATINGS AND CHARACTER -ISTICS of this specification
Sub-group C1 Combined sample of specimens of sub-groups C1A and C1B	D		18	
4.11 Climatic sequence				
4.11.2 Dry heat		T = T _{upp-cat} Duration ; 16 hours		
4.11.3 Damp heat cyclic, test Db, first cycle				
4.11.4 Cold		T = T _{low-cat} Duration ; 2 hours		
4.11.6 Damp heat cyclic, test Db, remaining cycle				No visible damage
4.11.6.2 Final measurements		Visual examination		Legible marking

TYPE SPECIFICATION



CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	n	PERFORMANCE REQUIREMENTS
		Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF		Δ C/C \leq 5% of the value measured initially Increase of tan-delta : for C \leq 1 uF
		Voltage proof 1500 Vac		A tan d
		Insulation resistance		≥ 50% of values in RATINGS AND CHARACTERISTICS of this specification
Sub-group C2	D		10	
4.12 Damp heat steady state				
4.12.1 Initial measurement		Capacitance		
		Tangent of loss angle at 10 khz C ≤ 1 uF		
4.12.3 Final measurements		Visual examination		No visible damage Legible marking
		Capacitance		Δ C/C \leq 5% of the value measured initially
		Tangent of loss angle at 10 khz C ≤ 1 uF		Increase of tan-delta : for C ≤ 1 uF ∆ tan d
		Voltage proof 1500 Vac, 1 min		No permanent breakdown or Flash over
		Insulation resistance		≥ 50% of values in RATINGS AND CHARACTERISTICS of this specification
Sub-group C3	D		12	
4.13.1 Initial measurements		Capacitance		
		Tangent of loss angle at 10 khz C ≤ 1 uF		
4.13 Peak impulse voltage		3 succesive impulses, full wave, peak voltage : 5 kV. Max. 24 pulses		No self healing breakdown or Flash over

TYPE SPECIFICATION



CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	n	PERFORMANCE REQUIREMENTS
4.14 Endurance 4.14.6 Final measurements		Duration : 1000 hours 1.7 x V _{Rac} at 105℃ via a resistor of 47Ω 5%. 47ohm should be located outside of oven or 47ohm's location in oven should be selected that heat generation of 47ohm is not to influence the capacitor's temperature. Visual examination Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF Insulation resistance Voltage proof 1500 Vac, 1 min		No visible damage Legible marking △ C/C ≤ 10% of the value measured initially Increase of tan-delta : for C ≤ 1 uF △ tan d < 0.0080 ≥ 50% of values in RATINGS AND CHARACTERISTICS of this specification No permanent breakdown or Flash over
Sub-group C4	П		6	
4.15 Charge and discharge		10000 cycles : (50c/s) charge to V _R half sine wave Duration : 5 ms Discharge resistance V _{Rac} . √ 2 R = 1.5 x C (dU/dt) With a minimum resistance of 2.2 Ω		
4.15.1 Initial measurement		Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF		
4.15.3 Final measurements		Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF		Δ C/C ≤ 10% of the value measured initially Increase of tan-delta : for C ≤ 1 uF Δ tan d \langle 0.0080
		Insulation resistance		≥ 50% of values in RATINGS AND CHARACTERISTICS of this specification

TYPE SPECIFICATION



CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS		PERFORMANCE REQUIREMENTS
Sub-group C6			18	
4.17 Passive flammability Class C		Bore of gas jet : ϕ 0.5 mm Fuel : Butane Test duration for actual volume V in mm ³ V \leq 250 : 5s 250 $\langle V \leq$ 500 : 10s 500 $\langle V \leq$ 1750 : 20s V \rangle 1750 : 30s One flame application		After removing test flame from capacitor, the capacitor must not continue burn for more than 3 s. No burning particle must drop from the sample.
Sub-group C7			24	
4.18 Active flammability		Ui = 5kV for class Y2 20 discharges in tank capacitor (3uF) when discharged, places Ui across the capacitor under test. The discharging interval : 5s. The test capacitor during the discharges connected to V_R (16A). V_R shall be maintained for 2 min after the last discharge.		The chees cloth around the capacitor shall not burn with a flame. Not electrical measurements are required.

TYPE SPECIFICATION

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CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS		PERFORMANCE REQUIREMENTS		
Sub-group ADD1	D		10			
A.1 Solderability		Without ageing Method : 1 Non-activated colophiny flux 501 Solder bath 245 ℃ Dwell time : 3 s		Good tinning as evidenced by free flowing of the solder with wetting of the terminations ($>$ 95 %)		
Solvent resistance of the marking		Isopropylaicohol at room temperature. Method : 1 Rubbing material cotton wool immersion time : 5± 0.5 min.		Legible marking		
Sub-group ADD2	D		12			
A.2 Heat storage		Duration : 1000 h Temperature : upper Category temperature				
A.2.1 Initial measurements		Capacitance Tangent of loss angle				
4.2.2 Final measurements		at 10 khz C ≤ 1 uF Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF		Δ C/C ≤ 5% of the value measured initially Increase of tan-delta : for C ≤ 1 uF Δ tan d < 0.0080 As in RATINGS AND CHARACTER		
		insulation resistance		-is fics of this specification		
Sub-group ADD3			9			
A.3 Detergent resistance		Density 20g/L dishwasher detergent. Temperature 70℃ during 3 minutes followed by rinsing in clear water for 1 minute. Recovery time 1 to 2 hours				
A.3.1 Initial measurement		Capacitance				
		angent of loss angle at 10 khz C \leq 1 uF		$A = C/C \leq E^{0}$ of the value		
A.3.2 Final measurements		Capacitance		measured initially		
		Tangent of loss angle at 10 khz C ≤ 1 uF		Increase of tan-delta : for C ≤ 1 uF ∆ tan d		
		Insulation resistance		> 50% of values in RATINGS AND CHARACTERISTICS of this specification		

TYPE SPECIFICATION



CLAUSE NUMBER AND TEST	D OR ND	CONDITIONS	n	PERFORMANCE REQUIREMENTS
Sub-group ADD4	D		10	
A.4 Resistance to soldering heat with preheating		Capacitors mounted on a 1.6 mm board with nonplated holes. Body temp. : 100 ℃ Bath temp : < 260 ℃ Dwell time : 10 s.		
A.4.1 Initial measurement		Capacitance Tangent of loss angle at 10 khz C ≤ 1 uF		
A.4.2 Final measurements		Capacitance		Δ C/C \leq 5% of the value measured initially
		Tangent of loss angle at 10 khz C ≤ 1 uF		Increase of tan-delta : for C ≤ 1 uF ∆ tan d < 0.0080
Sub-group ADD5	D		10	
A.5 Thermal Shock		θA = lower category temperature		∆C/C <u><</u> 10%
		0B = upper category temperature		
		100 cycles		∆tano(1KHZ) < 0.005
				R _{ins} ≥ 50% specified value

TYPE SPECIFICATION

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CONSTRUCTION

- Product type ; Metallized Polypropylene film capacitors
 - Model name ; PCY2 130





Metallized Polypropylene film

		I

	Description	Material
1	MKP Film	Metallized polypropylene film
2	Metal Spray	Tin-Zinc
3	Ероху	UL94V-0
4	Lead Wire	Tin plated Copper wire 0.6/0.8mm [Sn100%:10 µm]
5	PP Case	POLYPROPYLENE UL94-V0

PILKOR ELECTRONICS

Soldering conditions

- Heat resisting temperature MKT : 160°C KI

KP/MKP : 110°C

When mounting, set the soldering temperature so that the capacitor inside peak temperature is to be lower than the given above heat resisting temperature.

- Preheating temp : Max 110°C, 1min



[If dipping a capacitor into solder twice, the second dipping shall be carried after the capacitor itself has returned to normal temperature]

Not passing through adhesive curing oven in order to fix the SMD parts in combination with leads parts. - Not reflow soldering by combine the lead parts with SMD parts.

When cleaning right after soldering, make sure the capacitor surface temperature is lower than 50°C

Wave soldering profile (Recommendation)



- Solder bath Temperature : 260 °C Max.
- Shield : Heat-absorbing board, (1.5±0.5)mm thick, between capacitor body and liquid solder
- Visual inspection : No visible damage

* Soldering conditions

- -When mounting, set the soldering temperature so that the capacitor inside peak temperature is to be lower than the given above heat resisting temperature.
- -If dipping a capacitor into solder twice, the second dipping shall be carried after the capacitor itself has returned to normal temperature.
- -Not passing through adhessive curing oven in order to fix the SMD parts in combination with leads parts. Not reflow soldering by combine the lead parts with SMD parts.

-When cleaning right after soldering, make sure the capacitor surface temperature is lower than 50 $^\circ C$.