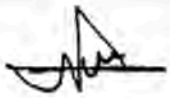
APPROVAL SHEET

ITEM : FILM CAPACITOR

TYPE : CMPS (Y2-Capacitor)

SPEC : AC300V SERIES

DRAWN	CHECKED	APPROVED
		
2016.06.24.	2016.06.24.	2016.06.24.

SURGE

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DEER PARK NY, 11729
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(631) 595-1818

CONTENTS

REVISION SHEET

P/N :	PART NAME : CMPS AC300V SERIES (Y2-CAP)

REVISION No	REV.REASON	REV.POINT	APPROVE DATE	EXAMINE	REMARK

SURGE

(DEPT)	Q .A		(ENACTMENT)	16. 06. 24.	REVISION 1	
	CMPS TYPE APPROVAL SHEET				REVISION 2	
					REVISION 3	

1. SCOPE

This standard specification applies to metallized polypropylene film & Series type capacitors for AC power source stipulated under the following European and American standards. (CMPS TYPE)

2. INSPECTION ITEM

2.1 rated voltage : AC300V(50/60Hz) (cUL(UL+CSA),ENEC(UL),CQC,KC)

2.2 Self Heating Temperature : The maximum allowable rise is 7℃

2.3 Operating temperature : -40℃ ~ +105℃

2.4 DC test Voltage : (C≤0.33uF)4000Vdc/2sec, (C>0.33uF)3700Vdc/2sec

2.5 Testing condition

Unless otherwise specified, test and measurements shall be conducted at the standard condition「ordinary temperature(15 to 35℃), ordinary humidity(relative humidity 45 to 75%)」, In case however doubt is entertained in judgment obtained from results, tests and measurements shall be conducted at the standard condition「temperature(20±2℃), relative humidity(65±5%)

2.6 Construction and appearance

2.5.1 Appearance : See 「STYLE」

2.5.2 Dielectric : METALLIZED POLYPROPYLENE FILM

2.5.3 Coating : CASE

2.5.4 Lead wire : CP-WIRE(Tin plated)

3. PERFORMANCE

The performance shall be as given in the table 1.

4. MARKING

Marking shall be clear and legible to capacity, Capacity tolerance, rated voltage,Mark, Model Name, Manufacturing date code, Safety Mark, Applicable class, Structure range.

5. REMARKS

If there exist any other opinion it will be decided under the consultation of each concerning party.

6. SAFETY CERTIFICATE

SAFTY	VOLTAGE	CAPACITANCE VALUE	FILE NO
UL60384-14 / CSA E60384-1:14 / CSA E60384-14:14 Fixed Capacitors for Use in Electronic Equipment-Class Y2	AC300V	0.001㎌~1.0㎌	20160127-E327138
ENEC/CB - Class Y2 IEC60384-14:2013(Fourth Edition)	AC300V	0.001㎌~1.0㎌	ENEC : ENEC-01401 CB : CAP-4786911536-A-1
CQC - Class Y2 (GB/T14472-1998)	AC300V	0.001㎌~1.0㎌	CQC16001139583
KC- Class Y2 (KC60384-14)	AC300V	0.001㎌~0.1㎌	Under Process

3. Performance. (Table 1)

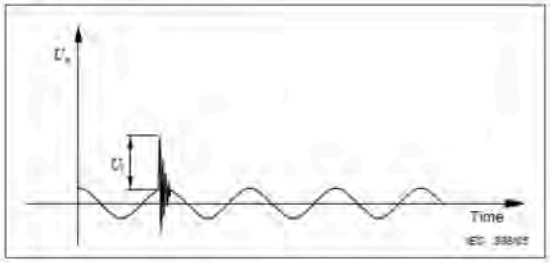
No	Item	Test method	Performance
3-1	Operating temp.		-40℃ ~ +105℃
3-2	dielectric strength	T-T:(Terminal-Terminal) Apply AC1500V for a minute or Apply DC2250V for a minute T-C:(Terminal-Cade) Apply AC2100V for a minute.	No abnormality.
3-3	Tolerance on Capacitance.	Checking spot is temperature 20±2℃ and frequency 1㎑±200Hz	K:±10% / M:±20% Within Spec
3-4	Insulation resistance (T-T)	Capacitors are subjected D.C potential of 100V for a period of one min.	①C 〉 0.33㎌:→ 5,000Ω · F ↑ ②C≤ 0.33㎌:→ 15,000MΩ ↑
3-5	Dielectric loss tangent	Checking spot is temperature 20±2℃ and frequency 1㎑±200Hz	1㎑ : 0.10% ↓ 10㎑ : C≤0.1㎌ 0.1% ↓ 0.1㎌ 〈C≤0.47㎌ 0.2% ↓ C〉 0.47㎌ 0.7% ↓
3-6	Heat resistance	Test temperature shall be 105±2℃	1) C: Within -5%, +0% of the value before test 2) I.R :①C 〉 0.33㎌:1000Ω · F ↑ ②C ≤0.33㎌:3000MΩ ↑
3-7	Cold resistance	Test temperature shall be -40±3℃	1) C: Within 0% ~ +5% of the value before test 2) tanδ : less than 0.1%
3-8	Damp Heat (steady state)	Capacitors shall be subjected the temperature at 40±2℃ and relative. humidity at 90 to 95% for a period of 56days. It will be measured after removed from the humidity chamber and exposed under room condition for about 2~3hours.	1) C: within ±5% of the value before test 2) △(10㎑)tanδ :less than 0.8% 3) IR: Over than 50% of before test 4) No abnormality 5) dielectric strength
3-9	Peak Impulse Voltage	Vp(Impulse Voltage) - 5kV Impulse time - 3~24times	No permanent breakdown or Flash over. (If more than three times in a row this lock is self-healing and islands should pass)

No	Item	Test method	Performance
3-10	High temperature loading (Endurance Test)	AC510V Voltage of (Rated voltage×1.7) Vrms at 50Hz shall be applied for 1000^{+48}_{-0} hours in a constant temperature tank of 105±2℃ (Moreover, 1000Vrms pulse shall be applied for 0.1 second once an hour) and than after cooling to room temperature and measured, the following requirements shall be satisfied. * All voltage shall be applied each capacitor individually through a resistance of 47Ω±5%	1) C: within ±10% of the value before test 2) △(10㎑)tan δ : less than 0.8% 3) IR: Over than 50% of before test 4) No abnormality 5) dielectric strength T-T:(Terminal-Terminal) Apply AC1500V for a minute or Apply DC2250V for a minute T-C:(Terminal-Cade) Apply AC2100V for a minute.
3-11	Robustness of terminations	1) Pull test lead diameter(mm) / load(N) / time(sec) 0.5 < d ≤ 0.8 / 10 / 10±1 0.8 < d ≤ 1.25 / 20 / 10±1 2) Bend test (2 cycle) lead diameter(mm) / load(N) / (kg) 0.5 < d ≤ 0.8 / 5 / 0.51 0.8 < d ≤ 1.25 / 10 / 1.00	No visible damage
3-12	solderability	1) Solder specimen : H60A or H63A 2) Solder temp : 235±5℃ 3) Dipping time : 2±0.5sec	At least 90% of the circumference of the surface up to the immersed shall be covered with new solder.
3-13	Resistance to soldering heat	Temperature of solder shall be 270±5℃ Dipping time shall be 3±0.5sec.	1) C: Within ±3% of the value before test 2) No abnormality
3-14	Vibration proof	The test shall be conducted for 2 hrs in each direction of any given three directions perpendicular to each other. 6.0hours in total. and 30min before the test is finished, the connection of element shall be investigated.	1) No abnormality 2) No electrical short circuit or disconnection of no less than 0.5ms shall appearance in the element. Stable connecting condition of the element.

<table>
<tr><th>No</th><th>Item</th><th>Test method</th><th>Performance</th></tr>
<tr><td>3-15</td><td>Passive Flammability</td><td>Category of flammability B

Bore of gas jet: Φ0.5mm
Fuel : Butane
Length of flame : 12±1mm

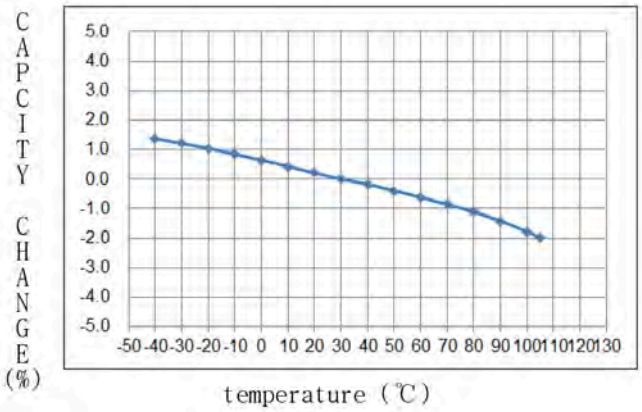
* test conducted by actual volume(㎣)
<table>
<tr><th rowspan="2">cate-gory</th><th colspan="4">Capacitor volume / Flame exposure time (sec)</th><th rowspan="2">Max burning time (sec)</th></tr>
<tr><th>volume ≤250</th><th>250< volume ≤500</th><th>500< volume ≤1750</th><th>volume >1750</th></tr>
<tr><td>B</td><td>10</td><td>20</td><td>30</td><td>60</td><td>10</td></tr>
</table></td><td>Category of flammability B
1) Tissue paper does not ignite
2) Not exceed Max burning time</td></tr>
<tr><td>3-16</td><td>Active flammability test</td><td>Capacitor shall be wrapped in at least 1, but not more than 2, complete layers of cheesecloth.

U~ = Rated voltage ±5%
Ui = 5kV+7%
Input Ui = 20times
 
</td><td>cheesecloth shall not burn with flame</td></tr>
<tr><td>3-17</td><td>Rapid Change of Temperature</td><td>Capacitors shall be subjected the temperature at -40±2℃,30min and +105±2℃,30min / total 5cycles.

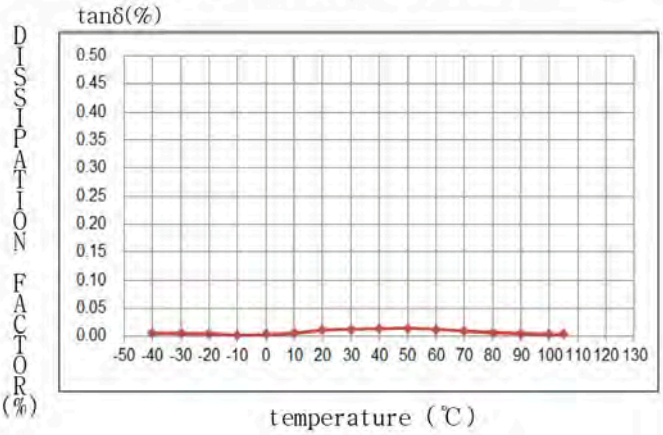
It will be measured after removed from chamber and exposed under room condition for about 2~3 hours.</td><td>1) C:Within ±5% of the value before test
2) No abnormality.</td></tr>
</table>

7. Graph of Electric characteristic

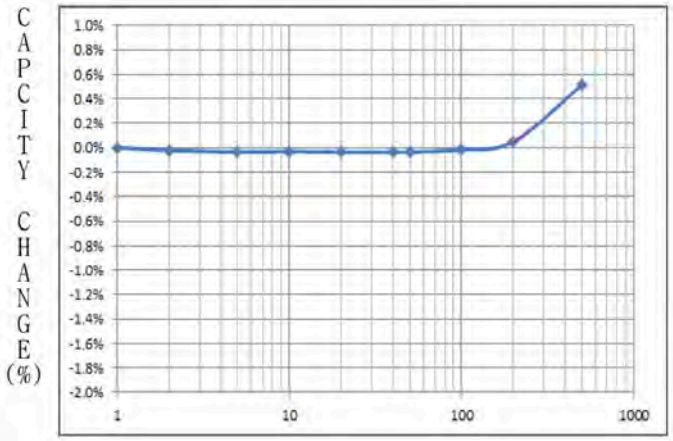
7.1 TEMPERATURE VS CAPACITANCE

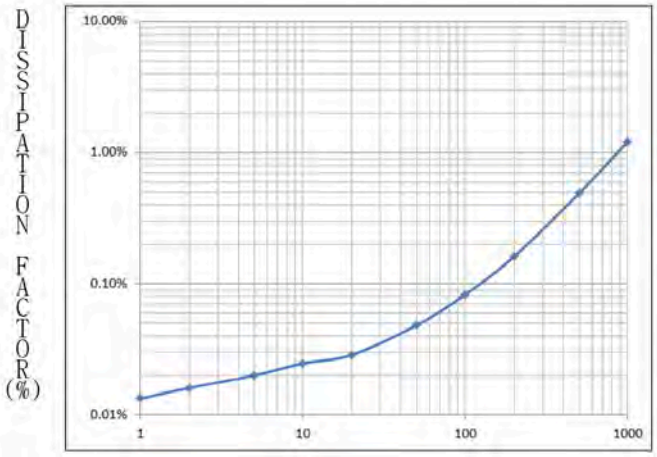


7.2 TEMPERATURE VS (1㎑)tanδ



7.3 FREQUENCY CHARACTER





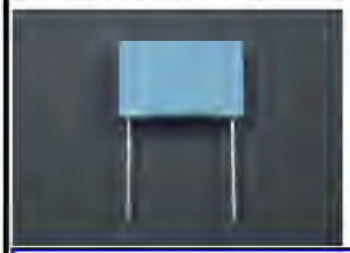
PRODUCTION FLOW CHART

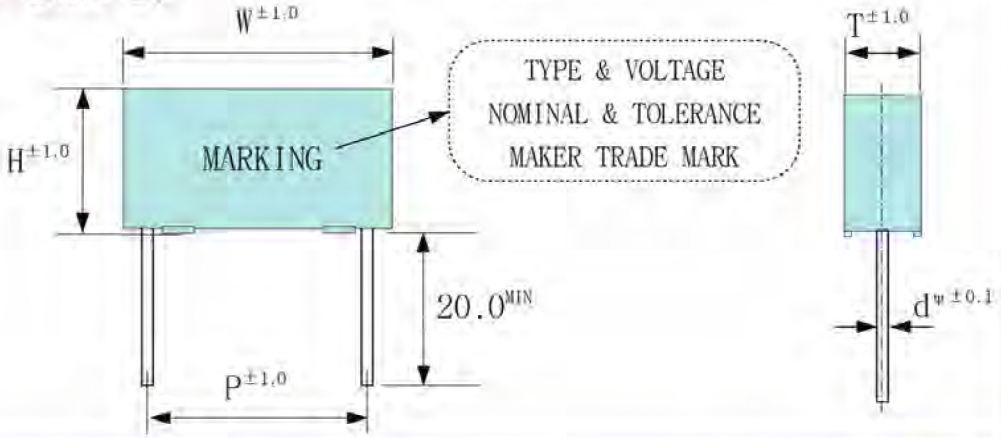
Q.C PROCESS CONTROL	DESCRIPTION	METALLIZED POLYPROPYLENE FILM & SERIES TYPE CAPACITOR (CMPS - Y2 CAP)	REVISION DATE	2016. 06. 24.

SPECIFICATION						CONTROL SPECIFICATION				
		RUNNING MATERIAL		M/C & GAUGE	MFG CONDITION	MANAGEMENT CONTROL POINT				
SECTION	FLOW	MATERIAL	TYPE			CATEGORY	CHARACTERISTIC	TIMES/ Q'TY	MEASUREMENT METHOD	CONTROL METHOD
WINDING		(SERIES-TYPE) METALLIZED POLYPROPYLENE FILM	MPP	AUTO ELEMENT WINDING M/C	TEMP. : 25±5℃ HUMIDITY : 30~65%	CAPACITANCE, ELEMENT STATUS	CAPACITANCE APPEARANCE	PER LOT N = 5	CAPACITANCE - METER , EYE, VERNIER CALIPERS	RECORD CHECK SHEET
PRE-PRESS				AUTO PRE-PRESS MACHINE	PARTS FEEDER & LINEAL FEEDER ADJUSTING	PRESSURE	APPEARANCE		NAKED EYE	
PRESS				HYDRAULIC PRESS M/C SILICON RUBBER	T : 110±5℃ P : 40~50kg/CM2 80~100kg/CM2 t : 2~5 MINUTES	TEMP, PRESSURE, TIME, Q'TY	APPEARANCE	TWICE PER DAY, EVERY LOT,	THERMOMETER, PRESSURE GAUGE, TIMER, BALANCE,	RECORD CHECK SHEET
MASKING		TAPING		MASKING M/C	TAPE WIDTH (12, 13, 18, 23MM)	GAP	APPEARANCE	EVERY LOT	NAKED EYE	CHECK
METALLICON		TIN-ZN ALLOY (1.6㎜)	TIN-ZN ALLOY	METALLICON M/C, DUST COLLECTOR	PRESSURE : 4~6kg/CM2 VOLTAGE : 12~24VDC TIMES : SS-4, 4 TIMES	THICKNESS OF METALLICON	APPEARANCE	TWICE PER DAY	VERNIER-CALIPERS, STAINLESS PLATE	RECORD CHECK SHEET
DEMASKING				DEMASKING MACHINE, CTN BOX	MOTOR REVOLUTION SPEED : 6~8	APPEARANCE	APPEARANCE	EVERY LOT	NAKED EYE	CHECK
DEBURRING				DEBURRING M/C	REVOLUTION SPEED : 4~5 TIME : 40~60 SECONDS	APPEARANCE	APPEARANCE	EVERY LOT	NAKED EYE	CHECK
LEAD WELDING		LEAD WIRE RESISTER	0.6~0.8MM	AUTO WELDING M/C, NIPPER, BALANCE WEIGHT (400g)	WELDING OUTPUT SET, CYCLE TIME SET, HEAD PRESSURE SET , LEAD CENTER PITCH ADJUST	WELDING OUTPUT, CYCLE, PRESSURE, WELD STRENGTH	LEAD WIRE ATTACHED TENSION	PER LOT N=5, EVERY CONVERSION N=5	NAKED EYE, PUSH-PULL GAUGE, BALANCE WEIGHT	RECORD CHECK SHEET
SELF HEALING				AUTOMATIC SELF HEALING MACHINE	1ST CHARGE CONDENSER CAPACITANCE : 4.8, 12 uF, 1ST FILM μ × 50V, 2ND FILM μ × 100V	CAPACITANCE	CAPACITANCE	PER LOT N=5	RLC CHECKER	CHECK
CASE INSERTING		PBT CASE	CASE	AUTOMATIC WELDING / ASSEMBLY MACHINE	①CASE SUPPLY FEEDER , JIG ADJUST & EXCHANGE , ②ELEMENT TRANSIT LEVEL, DISTANCE ADJUST	LEAD CENTER, CASE CENTER	APPEARANCE	PER LOT	VERNIER- CALIPERS NAKED EYE, GAUGE	CHECK
PRIMARY EPOXY FILLING		EPOXY RESIN	EPOXY	AUTOMATIC EPOXY INSERTING MACHINE	EPOXY DE-AERATION , NOZZLE SELECTION , RESIN AMOUNT SET	APPEARANCE	APPEARANCE	PER LOT	NAKED EYE	CHECK
DRYING				AUTOMATIC DRYING MACHINE	TEMP : 100℃±5℃ , TIME : 60 MIN	TEMP TIME	APPEARANCE	PER LOT	THERMOMETER TIMER	CHECK
SECONDARY EPOXY FILLING		EPOXY RESIN	EPOXY	AUTOMATIC EPOXY INSERTING MACHINE	EPOXY DE-AERATION , NOZZLE SELECTION , RESIN AMOUNT SET	APPEARANCE	APPEARANCE	PER LOT	NAKED EYE	CHECK
DRYING				AUTOMATIC DRYING MACHINE	TEMP : 100℃±5℃ TIME : 60 MIN	TEMP TIME	APPEARANCE	PER LOT	THERMOMETER TIMER	CHECK
APPEARANCE INSPECTION				LIMITED SAMPLE		PIN HOLE, EPOXY ATTACH, PRO-TURBULENCE	APPEARANCE	TOTAL Q'TY	NAKED EYE	RECORD CHECK, PALETO'S HISTOGRAM
AUTO MARKING		INK	INK	AUTO MARKING PRINT M/C	TYPE, SPEC, VOLTAGE, TOLERANCE, MFG DATE	MARKING CONDITION	INDICATION	TOTAL Q'TY	NAKED EYE	CHECK
ELECTRICAL INSPECTION				AUTO SORTING M/C AB-482(KOHAN) TCS-810-PS-M	CO tan δ TV IR C	CO tan δ TV IR C	Co tan δ TV IR C	TOTAL Q'TY	AUTO SORTING	RECORD CHECK, PALETO'S HISTOGRAM
PACKING		POLY BAG INNER BOX			CUT Q'TY: 100~500 S/TQ'TY : 100~500	DIMENSION, Q'TY, PACKING - CONDITION	DIMENSION	PER LOT N=5 ALL LOT, TOTAL Q'TY	VISCOMETER BALANCE EYE INSPECTION	CHECK, LABEL
FINAL INSPECTION					DIMENSION, TV, IR , C , tan δ	DIMENSION, TV, IR , C , tan δ		AQL=0.65% AQL=0.65% AQL=0.65% AQL=0.65% AQL=0.65%	VERNIER CALIPERS PUNCHER TESTER IR METER C METER RLC CHECKER	RECORD, FINAL INSPECTION SHEET, PC

DIMENSION(105℃ CMPS)

[STYLE]





CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V102K/M7.5S4	AC300V	0.0010	10.5	8.0	4.0	7.5	0.6
CMPS AC300V102K/M7.5S5	AC300V	0.0010	10.5	10.0	5.0	7.5	0.6
CMPS AC300V102K/M10S5	AC300V	0.0010	13.0	8.0	4.0	10.0	0.6
CMPS AC300V122K/M7.5S4	AC300V	0.0012	10.5	8.0	4.0	7.5	0.6
CMPS AC300V122K/M7.5S5	AC300V	0.0012	10.5	11.0	5.0	7.5	0.6
CMPS AC300V122K/M10S5	AC300V	0.0012	13.0	8.0	4.0	10.0	0.6
CMPS AC300V152K/M7.5S4	AC300V	0.0015	10.5	8.0	4.0	7.5	0.6
CMPS AC300V152K/M7.5S5	AC300V	0.0015	10.5	11.0	5.0	7.5	0.6
CMPS AC300V152K/M10S5	AC300V	0.0015	13.0	8.0	4.0	10.0	0.6
CMPS AC300V152K/M10S6	AC300V	0.0015	13.0	10.0	5.0	10.0	0.6
CMPS AC300V182K/M7.5S4	AC300V	0.0018	10.5	9.0	4.0	7.5	0.6
CMPS AC300V182K/M7.5S5	AC300V	0.0018	10.5	12.0	6.0	7.5	0.6
CMPS AC300V182K/M10S5	AC300V	0.0018	13.0	8.0	4.0	10.0	0.6
CMPS AC300V182K/M10S6	AC300V	0.0018	13.0	10.0	5.0	10.0	0.6
CMPS AC300V182K/M15S5	AC300V	0.0018	18.0	9.0	4.0	15.0	0.6
CMPS AC300V202K/M10S5	AC300V	0.0020	13.0	8.0	4.0	10.0	0.6
CMPS AC300V202K/M10S6	AC300V	0.0020	13.0	10.0	5.0	10.0	0.6
CMPS AC300V202K/M15S5	AC300V	0.0020	18.0	9.0	4.0	15.0	0.6
CMPSAC300V222K/M7.5S4	AC300V	0.0022	10.5	9.0	4.0	7.5	0.6
CMPS AC300V222K/M7.5S5	AC300V	0.0022	10.5	12.0	6.0	7.5	0.6
CMPS AC300V222K/M10S5	AC300V	0.0022	13.0	8.0	4.0	10.0	0.6
CMPS AC300V222K/M10S6	AC300V	0.0022	13.0	10.0	5.0	10.0	0.6
CMPS AC300V222K/M15S5	AC300V	0.0022	18.0	9.0	4.0	15.0	0.6
CMPSAC300V252K/M7.5S4	AC300V	0.0025	10.5	10.0	5.0	7.5	0.6
CMPS AC300V252K/M7.5S5	AC300V	0.0025	10.5	13.0	7.0	7.5	0.6
CMPS AC300V252K/M10S4	AC300V	0.0025	13.0	8.0	4.0	10.0	0.6
CMPS AC300V252K/M10S5	AC300V	0.0025	13.0	10.0	5.0	10.0	0.6
CMPS AC300V252K/M15S5	AC300V	0.0025	18.0	9.0	4.0	15.0	0.6
CMPSAC300V272K/M7.5S4	AC300V	0.0027	10.5	10.0	5.0	7.5	0.6
CMPS AC300V272K/M7.5S5	AC300V	0.0027	10.5	13.0	7.0	7.5	0.6
CMPS AC300V272K/M10S4	AC300V	0.0027	13.0	8.0	4.0	10.0	0.6
CMPS AC300V272K/M10S5	AC300V	0.0027	13.0	10.0	5.0	10.0	0.6
CMPS AC300V272K/M10S6	AC300V	0.0027	13.0	11.0	5.0	10.0	0.6
CMPS AC300V272K/M15S5	AC300V	0.0027	18.0	9.0	4.0	15.0	0.6
CMPS AC300V302K/M10S4	AC300V	0.0030	13.0	8.0	4.0	10.0	0.6
CMPS AC300V302K/M10S5	AC300V	0.0030	13.0	11.0	5.0	10.0	0.6
CMPS AC300V302K/M15S5	AC300V	0.0030	18.0	9.0	4.0	15.0	0.6
CMPSAC300V332K/M7.5S4	AC300V	0.0033	10.5	10.0	5.0	7.5	0.6
CMPS AC300V332K/M7.5S5	AC300V	0.0033	10.5	14.0	8.0	7.5	0.6
CMPS AC300V332K/M10S4	AC300V	0.0033	13.0	9.0	4.0	10.0	0.6
CMPS AC300V332K/M10S5	AC300V	0.0033	13.0	11.0	5.0	10.0	0.6
CMPS AC300V332K/M15S5	AC300V	0.0033	18.0	9.0	4.0	15.0	0.6
CMPSAC300V362K/M7.5S4	AC300V	0.0036	10.5	10.0	5.0	7.5	0.6
CMPS AC300V362K/M7.5S5	AC300V	0.0036	10.5	14.0	8.0	7.5	0.6
CMPS AC300V362K/M10S4	AC300V	0.0036	13.0	9.0	4.0	10.0	0.6

CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V362K/M10S5	AC300V	0.0036	13.0	11.0	5.0	10.0	0.6
CMPS AC300V362K/M10S6	AC300V	0.0036	13.0	12.0	6.0	10.0	0.6
CMPS AC300V362K/M15S5	AC300V	0.0036	18.0	9.0	4.0	15.0	0.6
CMPS AC300V392K/M7.5S4	AC300V	0.0039	10.5	12.0	6.0	7.5	0.6
CMPS AC300V392K/M10S4	AC300V	0.0039	13.0	10.0	5.0	10.0	0.6
CMPS AC300V392K/M10S5	AC300V	0.0039	13.0	12.0	6.0	10.0	0.6
CMPS AC300V392K/M15S5	AC300V	0.0039	18.0	9.0	4.0	15.0	0.6
CMPS AC300V412K/M7.5S4	AC300V	0.0041	10.5	12.0	6.0	7.5	0.6
CMPS AC300V422K/M10S4	AC300V	0.0042	13.0	11.0	5.0	10.0	0.6
CMPS AC300V422K/M10S5	AC300V	0.0042	13.0	12.0	6.0	10.0	0.6
CMPS AC300V422K/M15S5	AC300V	0.0042	18.0	9.0	4.0	15.0	0.6
CMPS AC300V422K/M15S6	AC300V	0.0042	18.0	11.0	5.0	15.0	0.6
CMPS AC300V472K/M7.5S4	AC300V	0.0047	10.5	12.0	6.0	7.5	0.6
CMPS AC300V472K/M10S4	AC300V	0.0047	13.0	11.0	5.0	10.0	0.6
CMPS AC300V472K/M10S5	AC300V	0.0047	13.0	12.0	6.0	10.0	0.6
CMPS AC300V472K/M10S6	AC300V	0.0047	13.0	12.5	6.5	10.0	0.6
CMPS AC300V472K/M15S5	AC300V	0.0047	18.0	9.0	4.0	15.0	0.6
CMPS AC300V472K/M15S6	AC300V	0.0047	18.0	11.0	5.0	15.0	0.6
CMPS AC300V512K/M7.5S4	AC300V	0.0051	10.5	12.0	6.0	7.5	0.6
CMPS AC300V512K/M10S4	AC300V	0.0051	13.0	11.0	5.0	10.0	0.6
CMPS AC300V512K/M10S5	AC300V	0.0051	13.0	12.0	6.0	10.0	0.6
CMPS AC300V512K/M15S5	AC300V	0.0051	18.0	9.0	4.0	15.0	0.6
CMPS AC300V512K/M15S6	AC300V	0.0051	18.0	11.0	5.0	15.0	0.6
CMPS AC300V562K/M7.5S4	AC300V	0.0056	10.5	12.0	6.0	7.5	0.6
CMPS AC300V562K/M10S4	AC300V	0.0056	13.0	11.0	5.0	10.0	0.6
CMPS AC300V562K/M10S5	AC300V	0.0056	13.0	12.0	6.0	10.0	0.6
CMPS AC300V562K/M15S5	AC300V	0.0056	18.0	9.0	4.0	15.0	0.6
CMPS AC300V562K/M15S6	AC300V	0.0056	18.0	12.0	6.0	15.0	0.6
CMPS AC300V622K/M10S4	AC300V	0.0062	13.0	12.0	6.0	10.0	0.6
CMPS AC300V622K/M10S5	AC300V	0.0062	13.0	12.5	6.5	10.0	0.6
CMPS AC300V622K/M15S5	AC300V	0.0062	18.0	9.0	4.0	15.0	0.6
CMPS AC300V622K/M15S6	AC300V	0.0062	18.0	11.0	5.0	15.0	0.6
CMPS AC300V682K/M10S4	AC300V	0.0068	13.0	12.0	6.0	10.0	0.6
CMPS AC300V682K/M10S5	AC300V	0.0068	13.0	12.5	6.5	10.0	0.6
CMPS AC300V682K/M10S6	AC300V	0.0068	13.0	13.0	7.0	10.0	0.6
CMPS AC300V682K/M15S4	AC300V	0.0068	18.0	9.0	4.0	15.0	0.6
CMPS AC300V682K/M15S5	AC300V	0.0068	18.0	11.0	5.0	15.0	0.6
CMPS AC300V752K/M10S4	AC300V	0.0075	13.0	12.0	6.0	10.0	0.6
CMPS AC300V752K/M10S5	AC300V	0.0075	13.0	13.0	7.0	10.0	0.6
CMPS AC300V752K/M10S6	AC300V	0.0075	13.0	16.5	6.5	10.0	0.6
CMPS AC300V752K/M15S4	AC300V	0.0075	18.0	9.0	4.0	15.0	0.6
CMPS AC300V752K/M15S5	AC300V	0.0075	18.0	11.0	5.0	15.0	0.6
CMPS AC300V822K/M10S4	AC300V	0.0082	13.0	12.0	6.0	10.0	0.6
CMPS AC300V822K/M10S5	AC300V	0.0082	13.0	13.0	7.0	10.0	0.6
CMPS AC300V822K/M10S6	AC300V	0.0082	13.0	16.5	6.5	10.0	0.6
CMPS AC300V822K/M15S4	AC300V	0.0082	18.0	9.0	4.0	15.0	0.6
CMPS AC300V822K/M15S5	AC300V	0.0082	18.0	11.0	5.0	15.0	0.6
CMPS AC300V912K/M10S4	AC300V	0.0091	13.0	12.0	6.0	10.0	0.6
CMPS AC300V912K/M10S5	AC300V	0.0091	13.0	13.0	7.0	10.0	0.6
CMPS AC300V912K/M10S6	AC300V	0.0091	13.0	16.5	6.5	10.0	0.6
CMPS AC300V912K/M15S4	AC300V	0.0091	18.0	9.0	4.0	15.0	0.6
CMPS AC300V912K/M15S5	AC300V	0.0091	18.0	11.0	5.0	15.0	0.6
CMPS AC300V103K/M10S4	AC300V	0.0100	13.0	12.5	6.5	10.0	0.6
CMPS AC300V103K/M10S5	AC300V	0.0100	13.0	16.5	6.5	10.0	0.6
CMPS AC300V103K/M10S6	AC300V	0.0100	13.0	18.0	8.0	10.0	0.6
CMPS AC300V103K/M15S4	AC300V	0.0100	18.0	9.0	4.0	15.0	0.6
CMPS AC300V103K/M15S5	AC300V	0.0100	18.0	11.0	5.0	15.0	0.6

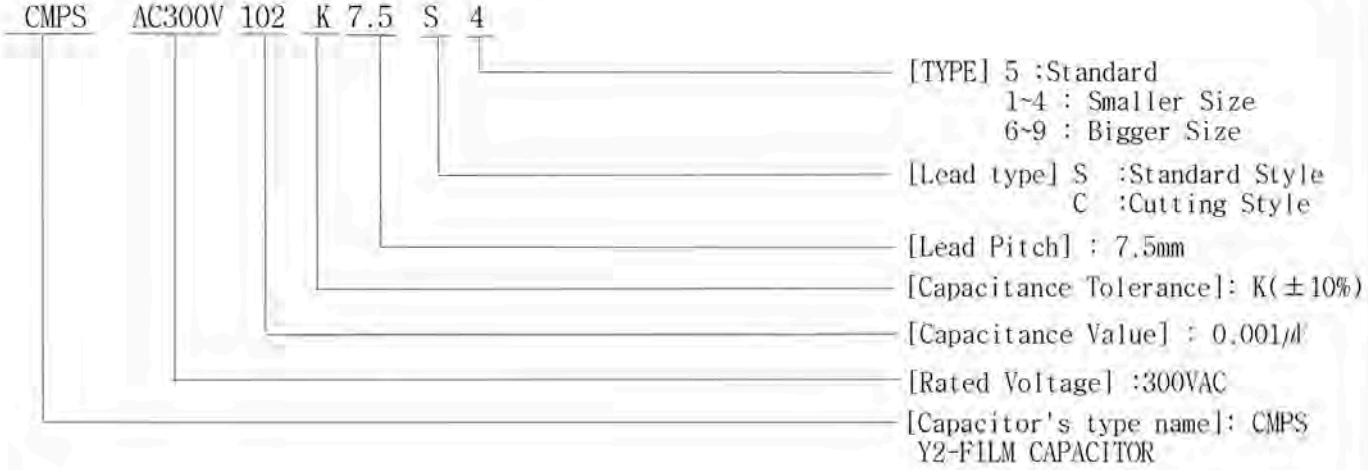
CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V123K/M10S4	AC300V	0.0120	13.0	13.0	7.0	10.0	0.6
CMPS AC300V123K/M10S5	AC300V	0.0120	13.0	18.0	8.0	10.0	0.6
CMPS AC300V123K/M15S4	AC300V	0.0120	18.0	11.0	5.0	15.0	0.6
CMPS AC300V123K/M15S5	AC300V	0.0120	18.0	12.0	6.0	15.0	0.6
CMPS AC300V123K/M15S6	AC300V	0.0120	18.0	13.0	7.0	15.0	0.6
CMPS AC300V153K/M10S5	AC300V	0.0150	13.0	20.0	10.0	10.0	0.6
CMPS AC300V153K/M15S4	AC300V	0.0150	18.0	11.0	5.0	15.0	0.6
CMPS AC300V153K/M15S5	AC300V	0.0150	18.0	12.0	6.0	15.0	0.6
CMPS AC300V153K/M15S6	AC300V	0.0150	18.0	13.0	7.0	15.0	0.6
CMPS AC300V183K/M10S5	AC300V	0.0180	13.0	20.0	10.0	10.0	0.6
CMPS AC300V183K/M15S4	AC300V	0.0180	18.0	12.0	6.0	15.0	0.6
CMPS AC300V183K/M15S5	AC300V	0.0180	18.0	13.0	7.0	15.0	0.6
CMPS AC300V183K/M15S6	AC300V	0.0180	18.0	13.5	7.5	15.0	0.6
CMPS AC300V203K/M15S4	AC300V	0.0200	18.0	12.0	6.0	15.0	0.6
CMPS AC300V203K/M15S5	AC300V	0.0200	18.0	13.0	7.0	15.0	0.6
CMPS AC300V203K/M15S6	AC300V	0.0200	18.0	13.5	7.5	15.0	0.6
CMPS AC300V223K/M15S4	AC300V	0.0220	18.0	12.0	6.0	15.0	0.6
CMPS AC300V223K/M15S5	AC300V	0.0220	18.0	13.0	7.0	15.0	0.6
CMPS AC300V223K/M15S6	AC300V	0.0220	18.0	14.0	8.0	15.0	0.6
CMPS AC300V223K/M22.5S5	AC300V	0.0220	26.0	15.0	6.0	22.5	0.6
CMPS AC300V253K/M15S4	AC300V	0.0250	18.0	12.0	6.0	15.0	0.6
CMPS AC300V253K/M15S5	AC300V	0.0250	18.0	13.5	7.5	15.0	0.6
CMPS AC300V253K/M15S6	AC300V	0.0250	18.0	15.0	8.5	15.0	0.8
CMPS AC300V253K/M22.5S5	AC300V	0.0250	26.0	15.0	6.0	22.5	0.6
CMPS AC300V273K/M15S4	AC300V	0.0270	18.0	13.0	7.0	15.0	0.6
CMPS AC300V273K/M15S5	AC300V	0.0270	18.0	13.5	7.5	15.0	0.6
CMPS AC300V273K/M15S6	AC300V	0.0270	18.0	15.0	8.5	15.0	0.8
CMPS AC300V273K/M22.5S5	AC300V	0.0270	26.0	15.0	6.0	22.5	0.6
CMPS AC300V303K/M15S4	AC300V	0.0300	18.0	13.5	7.5	15.0	0.6
CMPS AC300V303K/M15S5	AC300V	0.0300	18.0	15.0	8.5	15.0	0.8
CMPS AC300V303K/M15S6	AC300V	0.0300	18.0	17.5	8.5	15.0	0.8
CMPS AC300V303K/M22.5S5	AC300V	0.0300	26.0	15.0	6.0	22.5	0.6
CMPS AC300V333K/M15S4	AC300V	0.0330	18.0	13.5	7.5	15.0	0.6
CMPS AC300V333K/M15S5	AC300V	0.0330	18.0	15.0	8.5	15.0	0.8
CMPS AC300V333K/M15S6	AC300V	0.0330	18.0	18.0	9.0	15.0	0.8
CMPS AC300V333K/M22.5S4	AC300V	0.0330	26.0	15.0	6.0	22.5	0.6
CMPS AC300V333K/M22.5S5	AC300V	0.0330	26.0	16.0	7.0	22.5	0.6
CMPS AC300V363K/M15S4	AC300V	0.0360	18.0	13.5	7.5	15.0	0.6
CMPS AC300V363K/M15S5	AC300V	0.0360	18.0	15.0	8.5	15.0	0.8
CMPS AC300V363K/M15S6	AC300V	0.0360	18.0	18.0	9.0	15.0	0.8
CMPS AC300V363K/M22.5S4	AC300V	0.0360	26.0	15.0	6.0	22.5	0.6
CMPS AC300V363K/M22.5S5	AC300V	0.0360	26.0	16.0	7.0	22.5	0.6
CMPS AC300V393K/M15S4	AC300V	0.0390	18.0	14.0	8.0	15.0	0.6
CMPS AC300V393K/M15S5	AC300V	0.0390	18.0	17.5	8.5	15.0	0.8
CMPS AC300V393K/M15S6	AC300V	0.0390	18.0	16.0	10.0	15.0	0.8
CMPS AC300V393K/M22.5S4	AC300V	0.0390	26.0	15.0	6.0	22.5	0.6
CMPS AC300V393K/M22.5S5	AC300V	0.0390	26.0	16.0	7.0	22.5	0.6
CMPS AC300V393K/M22.5S6	AC300V	0.0390	26.0	17.0	8.5	22.5	0.8
CMPS AC300V423K/M15S4	AC300V	0.0420	18.0	15.0	8.5	15.0	0.8
CMPS AC300V423K/M15S5	AC300V	0.0420	18.0	17.5	8.5	15.0	0.8
CMPS AC300V423K/M15S6	AC300V	0.0420	18.0	19.0	11.0	15.0	0.8
CMPS AC300V423K/M22.5S4	AC300V	0.0420	26.0	15.0	6.0	22.5	0.6
CMPS AC300V423K/M22.5S5	AC300V	0.0420	26.0	16.0	7.0	22.5	0.6
CMPS AC300V423K/M22.5S6	AC300V	0.0420	26.0	17.0	8.5	22.5	0.8
CMPS AC300V473K/M15S4	AC300V	0.0470	18.0	15.0	8.5	15.0	0.8
CMPS AC300V473K/M15S5	AC300V	0.0470	18.0	16.0	10.0	15.0	0.8
CMPS AC300V473K/M15S6	AC300V	0.0470	18.0	19.0	11.0	15.0	0.8

CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V473K/M22.5S4	AC300V	0.0470	26.0	15.0	6.0	22.5	0.6
CMPS AC300V473K/M22.5S5	AC300V	0.0470	26.0	16.0	7.0	22.5	0.6
CMPS AC300V473K/M22.5S6	AC300V	0.0470	26.0	17.0	8.5	22.5	0.8
CMPS AC300V513K/M15S4	AC300V	0.0510	18.0	17.5	8.5	15.0	0.8
CMPS AC300V513K/M15S5	AC300V	0.0510	18.0	16.0	10.0	15.0	0.8
CMPS AC300V513K/M15S6	AC300V	0.0510	18.0	19.0	11.0	15.0	0.8
CMPS AC300V563K/M15S4	AC300V	0.0560	18.0	17.5	8.5	15.0	0.8
CMPS AC300V563K/M15S5	AC300V	0.0560	18.0	19.0	11.0	15.0	0.8
CMPS AC300V563K/M15S6	AC300V	0.0560	18.0	21.0	12.0	15.0	0.8
CMPS AC300V563K/M22.5S4	AC300V	0.0560	26.0	15.0	6.0	22.5	0.6
CMPS AC300V563K/M22.5S5	AC300V	0.0560	26.0	17.0	8.5	22.5	0.8
CMPS AC300V563K/M22.5S6	AC300V	0.0560	26.0	19.0	10.0	22.5	0.8
CMPS AC300V623K/M15S4	AC300V	0.0620	18.0	17.5	8.5	15.0	0.8
CMPS AC300V623K/M15S5	AC300V	0.0620	18.0	19.0	11.0	15.0	0.8
CMPS AC300V623K/M15S6	AC300V	0.0620	18.0	21.0	12.0	15.0	0.8
CMPS AC300V623K/M22.5S4	AC300V	0.0620	26.0	16.0	7.0	22.5	0.6
CMPS AC300V623K/M22.5S5	AC300V	0.0620	26.0	17.0	8.5	22.5	0.8
CMPS AC300V623K/M22.5S6	AC300V	0.0620	26.0	19.0	10.0	22.5	0.8
CMPS AC300V683K/M15S4	AC300V	0.0680	18.0	16.0	10.0	15.0	0.8
CMPS AC300V683K/M15S5	AC300V	0.0680	18.0	19.0	11.0	15.0	0.8
CMPS AC300V683K/M15S6	AC300V	0.0680	18.0	21.0	12.0	15.0	0.8
CMPS AC300V683K/M22.5S4	AC300V	0.0680	26.0	16.0	7.0	22.5	0.6
CMPS AC300V683K/M22.5S5	AC300V	0.0680	26.0	17.0	8.5	22.5	0.8
CMPS AC300V683K/M22.5S6	AC300V	0.0680	26.0	19.0	10.0	22.5	0.8
CMPS AC300V683K/M27.5S5	AC300V	0.0680	31.0	18.0	9.0	27.5	0.8
CMPS AC300V753K/M15S4	AC300V	0.0750	18.0	19.0	11.0	15.0	0.8
CMPS AC300V753K/M15S5	AC300V	0.0750	18.0	21.0	12.0	15.0	0.8
CMPS AC300V753K/M15S6	AC300V	0.0750	18.0	25.0	14.0	15.0	0.8
CMPS AC300V753K/M22.5S4	AC300V	0.0750	26.0	17.0	8.5	22.5	0.8
CMPS AC300V753K/M22.5S6	AC300V	0.0750	26.0	19.0	10.0	22.5	0.8
CMPS AC300V753K/M27.5S5	AC300V	0.0750	31.0	18.0	9.0	27.5	0.8
CMPS AC300V823K/M15S4	AC300V	0.0820	18.0	19.0	11.0	15.0	0.8
CMPS AC300V823K/M15S5	AC300V	0.0820	18.0	21.0	12.0	15.0	0.8
CMPS AC300V823K/M15S6	AC300V	0.0820	18.0	25.0	14.0	15.0	0.8
CMPS AC300V823K/M22.5S4	AC300V	0.0820	26.0	17.0	8.5	22.5	0.8
CMPS AC300V823K/M22.5S5	AC300V	0.0820	26.0	19.0	10.0	22.5	0.8
CMPS AC300V823K/M22.5S6	AC300V	0.0820	26.0	20.0	11.0	22.5	0.8
CMPS AC300V823K/M27.5S5	AC300V	0.0820	31.0	18.0	9.0	27.5	0.8
CMPS AC300V913K/M15S5	AC300V	0.0910	18.0	25.0	14.0	15.0	0.8
CMPS AC300V913K/M22.5S4	AC300V	0.0910	26.0	17.0	8.5	22.5	0.8
CMPS AC300V913K/M22.5S5	AC300V	0.0910	26.0	19.0	10.0	22.5	0.8
CMPS AC300V913K/M22.5S6	AC300V	0.0910	26.0	22.0	12.0	22.5	0.8
CMPS AC300V913K/M27.5S5	AC300V	0.0910	31.0	18.0	9.0	27.5	0.8
CMPS AC300V104K/M15S5	AC300V	0.1000	18.0	25.0	14.0	15.0	0.8
CMPS AC300V104K/M22.5S4	AC300V	0.1000	26.0	17.0	8.5	22.5	0.8
CMPS AC300V104K/M22.5S5	AC300V	0.1000	26.0	20.0	11.0	22.5	0.8
CMPS AC300V104K/M22.5S6	AC300V	0.1000	26.0	22.0	12.0	22.5	0.8
CMPS AC300V104K/M27.5S5	AC300V	0.1000	31.0	18.0	9.0	27.5	0.8
CMPS AC300V104K/M27.5S6	AC300V	0.1000	31.0	20.0	11.0	27.5	0.8
CMPS AC300V124K/M22.5S4	AC300V	0.1200	26.0	19.0	10.0	22.5	0.8
CMPS AC300V124K/M22.5S5	AC300V	0.1200	26.0	22.0	12.0	22.5	0.8
CMPS AC300V124K/M22.5S6	AC300V	0.1200	26.0	24.0	13.5	22.5	0.8
CMPS AC300V124K/M27.5S4	AC300V	0.1200	31.0	18.0	9.0	27.5	0.8
CMPS AC300V124K/M27.5S5	AC300V	0.1200	31.0	20.0	11.0	27.5	0.8
CMPS AC300V154K/M22.5S4	AC300V	0.1500	26.0	20.0	11.0	22.5	0.8
CMPS AC300V154K/M22.5S5	AC300V	0.1500	26.0	22.0	12.0	22.5	0.8
CMPS AC300V154K/M22.5S6	AC300V	0.1500	26.0	25.0	15.0	22.5	0.8

CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V154K/M27.5S4	AC300V	0.1500	31.0	18.0	9.0	27.5	0.8
CMPS AC300V154K/M27.5S5	AC300V	0.1500	31.0	20.0	11.0	27.5	0.8
CMPS AC300V154K/M27.5S6	AC300V	0.1500	31.0	22.0	13.0	27.5	0.8
CMPS AC300V184K/M22.5S4	AC300V	0.1800	26.0	20.0	11.0	22.5	0.8
CMPS AC300V184K/M22.5S5	AC300V	0.1800	26.0	25.0	15.0	22.5	0.8
CMPS AC300V184K/M27.5S4	AC300V	0.1800	31.0	20.0	11.0	27.5	0.8
CMPS AC300V184K/M27.5S5	AC300V	0.1800	31.0	22.0	13.0	27.5	0.8
CMPS AC300V204K/M22.5S4	AC300V	0.2000	26.0	22.0	12.0	22.5	0.8
CMPS AC300V204K/M22.5S5	AC300V	0.2000	26.0	25.0	15.0	22.5	0.8
CMPS AC300V204K/M22.5S6	AC300V	0.2000	26.0	28.0	16.0	22.5	0.8
CMPS AC300V204K/M27.5S4	AC300V	0.2000	31.0	20.0	11.0	27.5	0.8
CMPS AC300V204K/M27.5S5	AC300V	0.2000	31.0	24.5	15.0	27.5	0.8
CMPS AC300V224K/M22.5S4	AC300V	0.2200	26.0	22.0	12.0	22.5	0.8
CMPS AC300V224K/M22.5S5	AC300V	0.2200	26.0	25.0	15.0	22.5	0.8
CMPS AC300V224K/M22.5S6	AC300V	0.2200	26.0	30.0	18.0	22.5	0.8
CMPS AC300V224K/M27.5S4	AC300V	0.2200	31.0	20.0	11.0	27.5	0.8
CMPS AC300V224K/M27.5S5	AC300V	0.2200	31.0	22.0	13.0	27.5	0.8
CMPS AC300V224K/M27.5S6	AC300V	0.2200	31.0	24.5	15.0	27.5	0.8
CMPS AC300V224K/M37.5S5	AC300V	0.2200	41.5	24.0	12.0	37.5	0.8
CMPS AC300V254K/M22.5S5	AC300V	0.2500	26.0	30.0	18.0	22.5	0.8
CMPS AC300V254K/M27.5S4	AC300V	0.2500	31.0	22.0	13.0	27.5	0.8
CMPS AC300V254K/M27.5S5	AC300V	0.2500	31.0	24.5	15.0	27.5	0.8
CMPS AC300V254K/M27.5S6	AC300V	0.2500	31.0	26.0	18.0	27.5	0.8
CMPS AC300V274K/M22.5S5	AC300V	0.2700	26.0	30.0	18.0	22.5	0.8
CMPS AC300V274K/M27.5S4	AC300V	0.2700	31.0	22.0	13.0	27.5	0.8
CMPS AC300V274K/M27.5S5	AC300V	0.2700	31.0	24.5	15.0	27.5	0.8
CMPS AC300V274K/M27.5S6	AC300V	0.2700	31.0	26.0	18.0	27.5	0.8
CMPS AC300V274K/M37.5S5	AC300V	0.2700	41.5	24.0	12.0	37.5	0.8
CMPS AC300V304K/M22.5S5	AC300V	0.3000	26.0	32.0	20.0	22.5	0.8
CMPS AC300V304K/M27.5S4	AC300V	0.3000	31.0	22.0	13.0	27.5	0.8
CMPS AC300V304K/M27.5S5	AC300V	0.3000	31.0	26.0	18.0	27.5	0.8
CMPS AC300V304K/M37.5S6	AC300V	0.3000	41.5	24.0	12.0	37.5	0.8
CMPS AC300V334K/M22.5S5	AC300V	0.3300	26.0	32.0	20.0	22.5	0.8
CMPS AC300V334K/M27.5S4	AC300V	0.3300	31.0	22.0	13.0	27.5	0.8
CMPS AC300V334K/M27.5S5	AC300V	0.3300	31.0	26.0	18.0	27.5	0.8
CMPS AC300V334K/M37.5S5	AC300V	0.3300	41.5	24.0	12.0	37.5	0.8
CMPS AC300V334K/M37.5S4	AC300V	0.3300	41.5	24.0	12.0	37.5	0.8
CMPS AC300V334K/M37.5S5	AC300V	0.3300	41.5	26.0	15.0	37.5	0.8
CMPS AC300V364K/M27.5S4	AC300V	0.3600	31.0	24.5	15.0	27.5	0.8
CMPS AC300V364K/M27.5S5	AC300V	0.3600	31.0	26.0	18.0	27.5	0.8
CMPS AC300V364K/M27.5S6	AC300V	0.3600	31.0	33.0	18.0	27.5	0.8
CMPS AC300V364K/M37.5S5	AC300V	0.3600	41.5	26.0	15.0	37.5	0.8
CMPS AC300V394K/M27.5S4	AC300V	0.3900	31.0	24.5	15.0	27.5	0.8
CMPS AC300V394K/M27.5S5	AC300V	0.3900	31.0	26.0	18.0	27.5	0.8
CMPS AC300V394K/M27.5S6	AC300V	0.3900	31.0	33.0	18.0	27.5	0.8
CMPS AC300V394K/M37.5S4	AC300V	0.3900	41.5	24.0	12.0	37.5	0.8
CMPS AC300V394K/M37.5S5	AC300V	0.3900	41.5	26.0	15.0	37.5	0.8
CMPS AC300V394K/M37.5S6	AC300V	0.3900	41.5	30.0	16.0	37.5	0.8
CMPS AC300V424K/M27.5S4	AC300V	0.4200	31.0	26.0	18.0	27.5	0.8
CMPS AC300V424K/M27.5S5	AC300V	0.4200	31.0	33.0	18.0	27.5	0.8
CMPS AC300V424K/M37.5S4	AC300V	0.4200	41.5	24.0	12.0	37.5	0.8
CMPS AC300V424K/M37.5S5	AC300V	0.4200	41.5	26.0	15.0	37.5	0.8
CMPS AC300V424K/M37.5S6	AC300V	0.4200	41.5	30.0	16.0	37.5	0.8
CMPS AC300V474K/M27.5S4	AC300V	0.4700	31.0	26.0	18.0	27.5	0.8
CMPS AC300V474K/M27.5S5	AC300V	0.4700	31.0	33.0	18.0	27.5	0.8
CMPS AC300V474K/M37.5S4	AC300V	0.4700	41.5	24.0	12.0	37.5	0.8
CMPS AC300V474K/M37.5S5	AC300V	0.4700	41.5	26.0	15.0	37.5	0.8

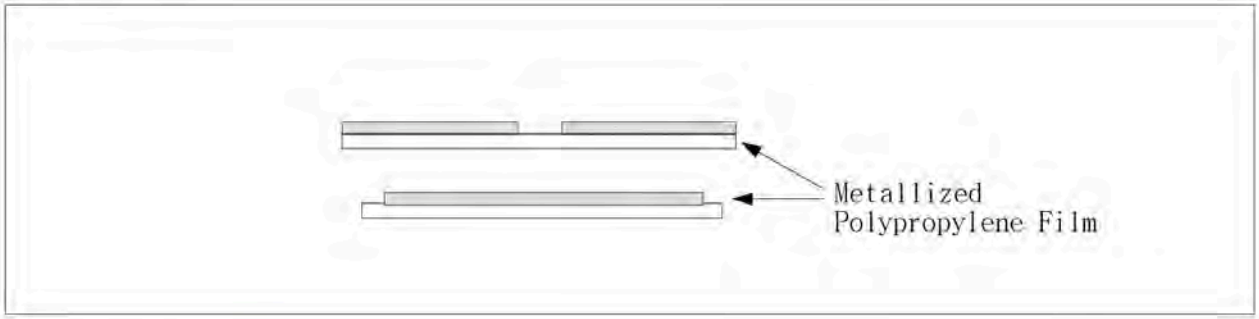
CODE NO	VOLT	CAP(uF)	W±1.0mm	H±1.0mm	T±1.0mm	P±1.0mm	D±0.1
CMPS AC300V474K/M37.5S6	AC300V	0.4700	41.5	30.0	16.0	37.5	0.8
CMPS AC300V514K/M27.5S4	AC300V	0.5100	31.0	26.0	18.0	27.5	0.8
CMPS AC300V514K/M27.5S5	AC300V	0.5100	31.0	33.0	18.0	27.5	0.8
CMPS AC300V514K/M37.5S5	AC300V	0.5600	41.5	30.0	16.0	37.5	0.8
CMPS AC300V514K/M37.5S6	AC300V	0.5600	41.5	26.0	15.0	37.5	0.8
CMPS AC300V564K/M27.5S4	AC300V	0.5600	31.0	26.0	18.0	27.5	0.8
CMPS AC300V564K/M27.5S5	AC300V	0.5600	31.0	33.0	18.0	27.5	0.8
CMPS AC300V564K/M27.5S6	AC300V	0.5600	31.0	37.0	22.0	27.5	0.8
CMPS AC300V564K/M37.5S4	AC300V	0.5600	41.5	26.0	15.0	37.5	0.8
CMPS AC300V564K/M37.5S5	AC300V	0.5600	41.5	30.0	16.0	37.5	0.8
CMPS AC300V564K/M37.5S6	AC300V	0.5600	41.5	33.0	18.0	37.5	0.8
CMPS AC300V624K/M27.5S4	AC300V	0.6200	31.0	33.0	18.0	27.5	0.8
CMPS AC300V624K/M27.5S5	AC300V	0.6200	31.0	37.0	22.0	27.5	0.8
CMPS AC300V624K/M37.5S4	AC300V	0.6200	41.5	26.0	15.0	37.5	0.8
CMPS AC300V624K/M37.5S5	AC300V	0.6200	41.5	30.0	16.0	37.5	0.8
CMPS AC300V624K/M37.5S6	AC300V	0.6200	41.5	33.0	18.0	37.5	1.0
CMPS AC300V684K/M27.5S5	AC300V	0.6800	31.0	37.0	22.0	27.5	0.8
CMPS AC300V684K/M27.5S6	AC300V	0.6800	31.0	40.0	25.0	27.5	0.8
CMPS AC300V684K/M37.5S4	AC300V	0.6800	41.5	26.0	15.0	37.5	0.8
CMPS AC300V684K/M37.5S5	AC300V	0.6800	41.5	33.0	18.0	37.5	0.8
CMPS AC300V684K/M37.5S6	AC300V	0.6800	41.5	35.0	20.0	37.5	1.0
CMPS AC300V754K/M27.5S5	AC300V	0.7500	31.0	40.0	25.0	27.5	0.8
CMPS AC300V754K/M37.5S4	AC300V	0.7500	41.5	30.0	16.0	37.5	0.8
CMPS AC300V754K/M37.5S5	AC300V	0.7500	41.5	33.0	18.0	37.5	0.8
CMPS AC300V754K/M37.5S6	AC300V	0.7500	41.5	40.0	20.0	37.5	1.0
CMPS AC300V824K/M37.5S4	AC300V	0.8200	41.5	30.0	16.0	37.5	0.8
CMPS AC300V824K/M37.5S5	AC300V	0.8200	41.5	35.0	20.0	37.5	1.0
CMPS AC300V824K/M37.5S6	AC300V	0.8200	41.5	40.0	20.0	37.5	1.0
CMPS AC300V914K/M37.5S5	AC300V	0.9100	41.5	40.0	20.0	37.5	1.0
CMPS AC300V914K/M37.5S6	AC300V	0.9100	41.5	45.0	25.0	37.5	1.0
CMPS AC300V105K/M37.5S5	AC300V	1.0000	41.5	40.0	20.0	37.5	1.0
CMPS AC300V105K/M37.5S6	AC300V	1.0000	41.5	45.0	25.0	37.5	1.0

CODE NO. Designation

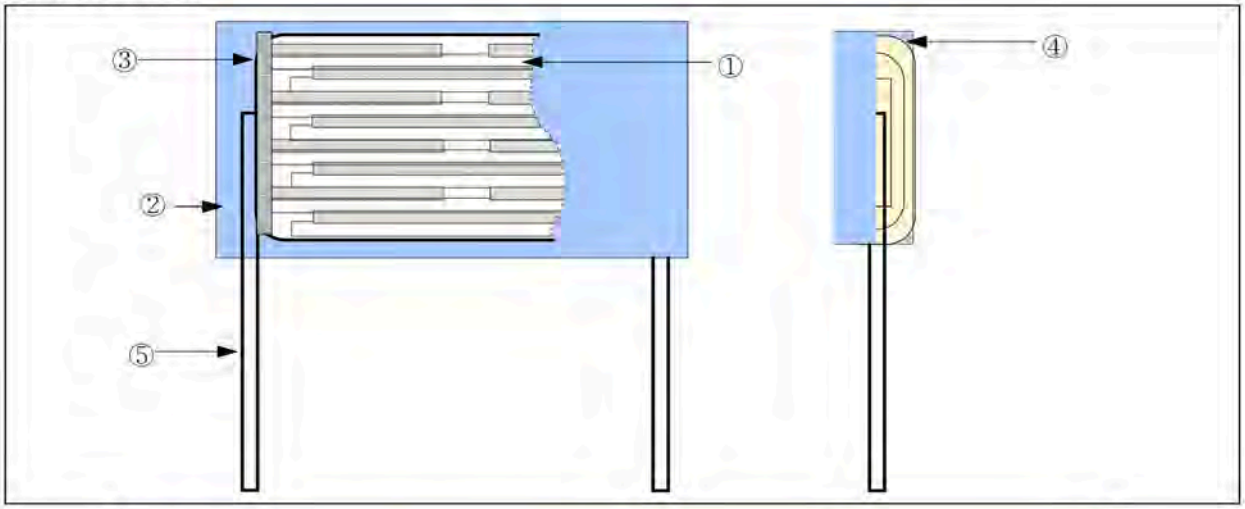


CONSTRUCTION			DR-AWN		CH-ECKED		APPR-OVED		1/1
DEPT	Q.C DEPT		ENACTMENT	16. 06. 24.		REVISION			
SUB	CMPS capacitor					REVISION			
						REVISION			

♠ Section View

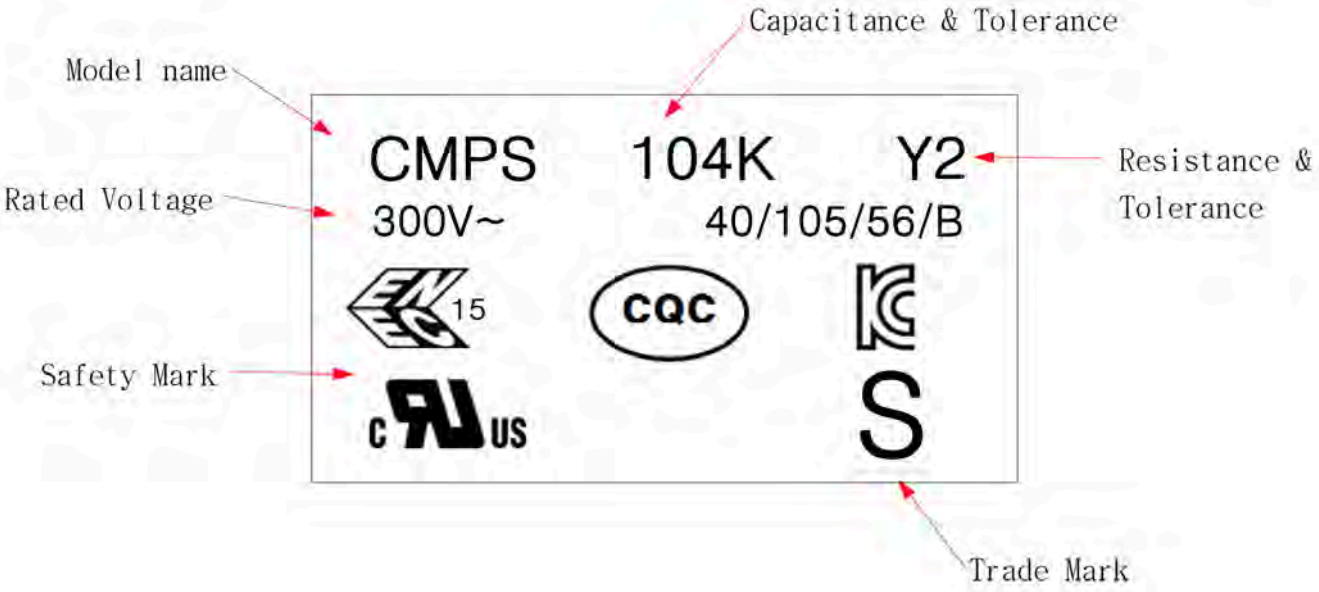


♠ Construction



NO.	Type	Quantity	Material	Production process
1	Electrode	2	Metallized Polypropylene film (SERIES)	winding
2	CASE	1	PLASTIC CASE (UL 94V-0)	CASE INSERTING
3	Solder (Pb-Free)	2	Tin-Zn Alloy	Spray
4	FILLING	1	EPOXY RESIN (UL 94V-0)	EPOXY FILLING
5	Lead - wire (Pb-Free)	2	CP-wire	spot-welding

MARKING Y2-CAP (CMPS TYPE)	DRAWN	CHEC-KED	APPR-OVED	1/1



Climatic Category, flammability category

40 / 105 / 56

[Damp heat, steady state] :56days

[Maximum using Temp] :+105℃

[Minimum using Temp] :-40℃

* Trade Mark

S - SURGE

SURGE

DRAWN		CHEC -KED		APPR -OVED		1/1

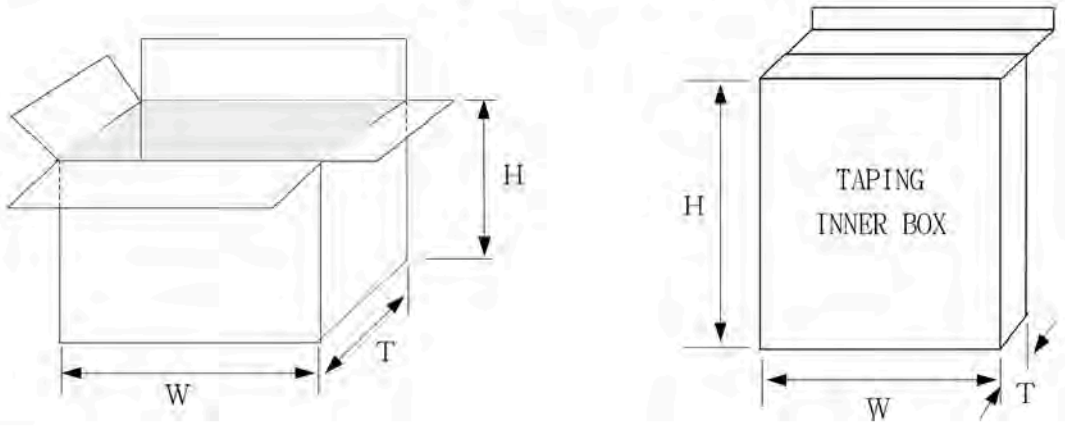
(DEPT)	Q .A		(ENACTMENT)	16. 06. 24.	REVISION 1	
SUB	PACKING STANDARD SPEC.				REVISION 2	
					REVISION 3	

1. SCOPE

This standard specifies film capacitors for packing standard.

2. PACKING

[BOX TYPE]



3. SIZE

3.1 BULK TYPE

ITEMS	SIZE W(mm) × T(mm) × H(mm)
INNER BOX	350 × 200 × 275
OUT BOX	580 × 220 × 370

TEST M/C LIST

PART NO	TEST M/C NAME	Holding No.	MAKER	Calibration laboratory	Date or cal
SI-01	LCR METER :4284A	1	Agilent Technologies	Agilent Technologies	15.08.25
SI-02	LCR METER :4263B	7	Agilent Technologies	Agilent Technologies	16.03.26
SI-08	CAPACITANCE COMPATATOR :JK-9B	12	JKS	HCT	16.03.26
SI-20	DIGITAL C CHECKER :AX-325N	5	ADEX	HCT	16.03.26
SI-25	DIGITAL C-Tanδ CHECKER :AX333A	1	ADEX	HCT	16.03.26
SI-26	PUNCTURE TESTER :HPT-50100A	1	HAN IL	HCT	16.03.26
SI-27	PUNCTURE TESTER :SJP-5002	3	SUN JIN	HCT	16.03.26
SI-30	AC VOLTMETER :2013	1	YOKOGAWA	HCT	16.03.26
SI-31	WITHSTANDING VOLTAGE TESTER :TOS8700	1	KIKUSUI	HCT	16.03.26
SI-32	SUPER MEGOHMMETER :SM-5E	2	TOA	HCT	16.03.26
SI-34	SUPER MEGOHMMETER :SM-8215	1	TOA	HCT	16.03.26
SI-37	RLC DIGIBRIDGE :112M	1	SHINWOO	HCT	16.03.26
SI-40	RLC DIGIBRIDGE :TM7	2	TAE YANG	HCT	16.03.26
SI-41	CAPACITANCE COMPATATOR :JK-1039	1	JKS	HCT	16.03.26
SI-42	RLC DIGIBRIDGE :1689M	1	GenRad	HCT	16.03.26
SI-43	PUNCTURE TESTER AC :ACTV-3000	1	NONE	HCT	16.03.26
SI-44	RLC DIGIBRIDE :SK-608	1		HCT	16.03.26
SG-01 외	DIGITAL CALIPERS	11	MITUTOYO	HCT	16.03.26
SG-12 외	DIGITAL CALIPERS	8	KONEX	HCT	16.03.26
SG-04	DIGITAL MICROMETER	1	MITUTOYO	HCT	16.03.26
SM-01	Constant temp. & humidity chamber	2		HCT	16.03.26
SM-04	THERMOMETER	1	KONICS	HCT	16.03.26

PRECAUTIONS AND GUIDELINE TO USE

1 Caution for soldering

-. Solder within the condition mentioned below Figure. Contact us when exceeding the recommended soldering condition. Soldering time in 2 bath soldering equipment should be the total time of 1st bath and 2nd bath.

-. Recommended soldering condition is for the guideline for ensuring the basic characteristics of the components, not for stable soldering conditions. Conditions for proper soldering should be set up according to individual condition.

-. Avoid passing through adhesive curing oven in order to cure the resin for fixing the chip parts, in combination with chip part. (Or an excessive heat over the mounting heat resisting temperature may be applied, leading to breakage of coating resin or deterioration of capacitor characteristic)
When combining with chip parts, after curing the adhesive, insert capacitor, and solder

-. Avoid reflow soldering by combining with chip parts. (Or an excessive heat over the mounting heat resisting temperature may be applied,leading to breakage of coating resin or deterioration of capacitor characteristic)

-. If re-working or dipping twice in necessary, it should be done after capacitor returned to the normal temperature(for 30minutes in room temperature). Please contact us when three times dipping is necessary.

2 Storage requirements

-. Storage location shall be indoor with the temperature of-10 to 40 ℃ and with the relative humidity of 85 % or less. Do not subject capacitor(s) to the atmosphere in which sudden temperature changes, direct sunlight and/or any corrosive gas (such as hydrogen sulfide, sulfide, sulfur dioxide, chlorine and ammonia gas) exists.

-. Store capacitor(s) in the shipping carton so that no load will be imposed on them. Capacitor(s) for which special storage manners are required should be stored in such manners.

3 Handling

-. Do not subject capacitor(s) to excessive vibration, shock (such as drop) and/or pressure.

-. Do not subject lead wire(s) to excessive force (including bending pulling).

-. Do not use if the capacitor is dropped, its characteristics may be damaged.

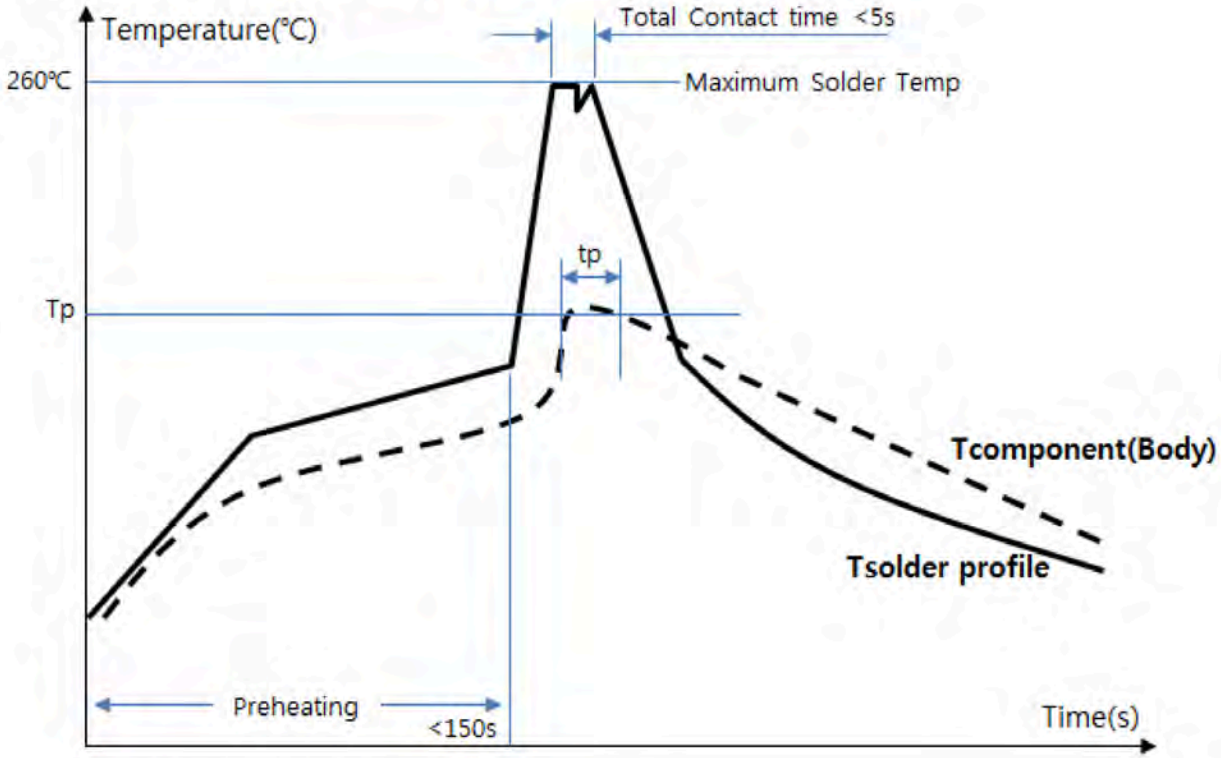
CLEANING CONDITION

-. Do not use any other cleaning solvents for Box-Typed capacitors except; Ethanol, isopropanol

n-propanol-water mixture.

-. After cleaning a drying process with temperature not exceeding 65℃ and not longer than 4hours is mandatory to prevent any kind of electrical damage.

1. Lead-Free wave soldering Condition

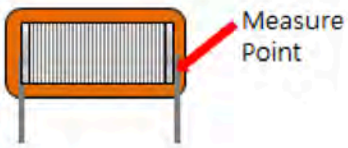


Tp: Max Temperature of component body

REMARK	POLYESTER	POLYPROPYLENE	
	ALL	Pitch≤7.5㎜	Pitch> 7.5㎜
Tp	Max135℃	Max110℃	Max120℃
tp	Max30sec	Max20sec	Max20sec

※ The Maximum Temperature measured inside Capacitor
(Inside capacitor temperature should not be exceed below table)

POLYESTER FILM	160℃
POLYPROPYLENE FILM	110℃



2. Solder dipping soldering Condition

Solder Peak Temp	260℃
Dipping time	4sec
Soldering	1 time
Component for Insertion: Dipping to the lead joint of Component	

3. Hand Soldering

Solder iron tip temp	350℃
Soldering time	3sec

SURGE