

规格承认书

SPECIFICATION FOR APPROVAL

客 户
CUSTOMER NAME : 立创商城

项 目 TYPE:MPP (MPP)
DESCRIPTION : METALLIZED POLYPROPYLENE FILM
CAPACITOR DC APPLICATION (RADIAL TYPE)

客 户 料 号
CUSTOMER' S P/N : 金属化聚丙烯薄膜电容器

鸿 志 料 号
HEL' S P/N :

※This specification will be invalidated assuming that it is not accepted when it is not returned with one year from the date of issue

CUSTOMER		HEL	
APPROVAL	PREPARE	APPROVAL	PREPARE
		林意杰	

HEL

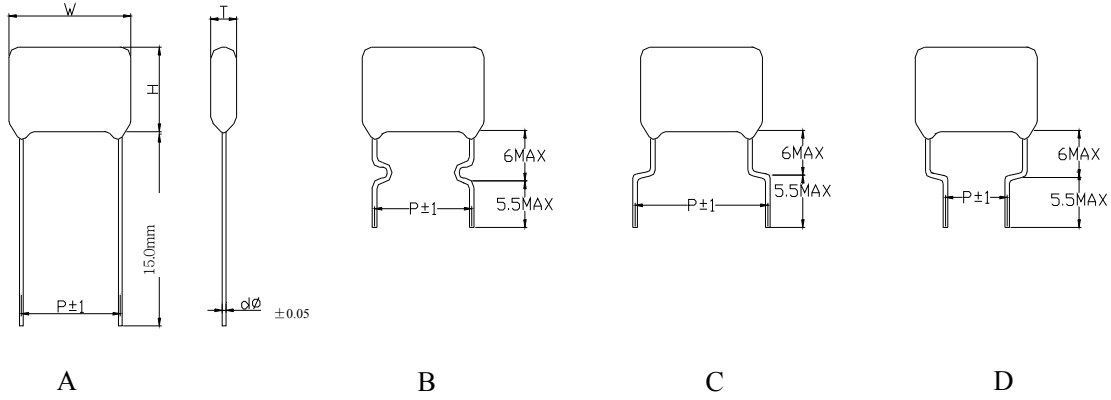
HONG ZHI ENTERPRISE CO

ADD: N6,Pujiang Rd,Longhu Industrial Park, Shantou,Guangdong, China
TEL: 0754-88788046 88857416 FAX: 0754-88888417

ADD: Unit 10,11/F,BlkA, Hbi Luan Industrial Center ,55HbiYuanRoad,KwanTong
TEL: 0852-23412900 FAX: 0852-27903481

PLASTIC FILM CAPACITORS

TYPE: MPP



CUSTOMER P / N	CAP (μ F)	CAP TOL \pm %	RATED VOLTAGE (VDC)	1KHZ DF(%) MAX	DIMENSION (mm)					HongZhi P/N	Fig
					Wmax	Hmax	Tmax	P	\varnothing d		
C333838	0.1	5	100	0.1	7.2	6.5	2.5	5.0	0.5	MEM104J2A-7-50R0	A
C333827	0.1	5	100	0.1	7.2	7.0	4.0	5.0	0.5	MES104J2A-7-50R0	A
C333829	1	5	100	0.1	7.2	12.0	6.0	5.0	0.5	MES105J2A-7-50R0	A
C333834	0.1	5	400	0.1	13.0	9.0	6.0	10.0	0.6	MPP104J2GA3A0R0	A
C333835	1	5	400	0.1	18.0	10.0	8.0	15.0	0.7	MPP105J2GA8A50R0	A

PLASTIC FILM CAPACITORS

1. NUMBER DECODE REGULATION

MPP 105 J 2G B3 B0 0 R 0 00
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

1. SERIES

PEI	PES	PEN	MPE	MES	MEM	MMB	MEB	MET	MEF	PPL	PPN	PPT	MPP	MPB	MPT	MPF
MPS	MSB	PST	PSC	PPS	PSM	PSB	PSH	PHB	MPX	MX1	MPY	SKC	PSA	PSR	PCC	PAC

2. RATED CAPACITANCE

CODE	101	102	103	104	105	106
PF	100PF	1000PF	10000PF	100000PF	1000000PF	10 μ F
NF		1 NF	10 NF	100 NF	1000 NF	
μ F		0.001 μ F	0.01 μ F	0.1 μ F	1.0 μ F	

3. TOLERANCE

Tolerance	\pm 1%	\pm 2%	\pm 2.5%	\pm 3%	\pm 5%	\pm 10%	\pm 20%
Symbols	F	G	H	I	J	K	M

4. RATED VOLTAGE

	A	B	C	D	E	F	G	H	I	J	K	L
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0		6.3	8.0	
1	10	12.5	16	20	25	31.5	40	50		63	80	
2	100	125	160	200	250	315	400	500		630	800	
3	1000	1250	1600	2000	2500	3150	4000	5000		6300	8000	
4	10000	12500	16000	20000	25000	31500	40000	50000		63000	80000	

5. WIDTH OR DIAMETERED mm

	0	1	2	3	4	5	6	7	8	9
-		1	2.5	3	4	5	6	7.5	8	9
A	10	11	12.5	13	14	15	16	17.5	18	19
B	20	21	22.5	23	24	25	26	27.5	28	29
C	30	31	32.5	33	34	35	36	37.5	38	39
D	40	41	42.5	43	44	45	46	47.5	48	49
E	50	51	52.5	53	54	55	56	57.5	58	59
F	60	61	62.5	63	64	65	66	67.5	68	69
G	70	71	72.5	73	74	75	76	77.5	78	79
H	80	81	82.5	83	84	85	86	87.5	88	89
I	90	91	92.5	93	94	95	96	97.5	98	99

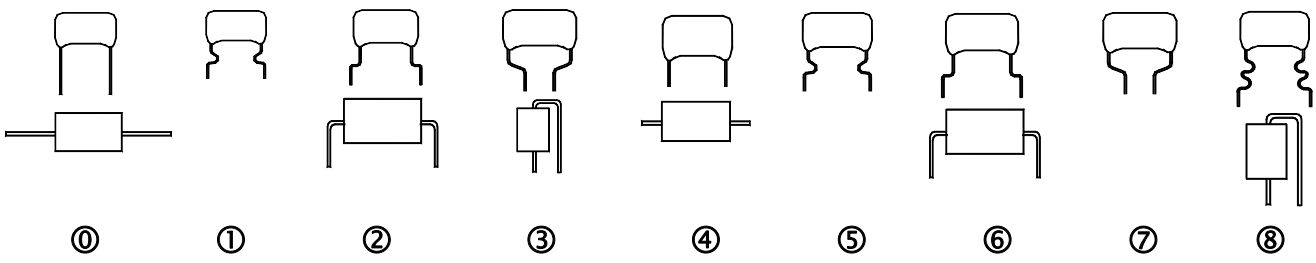
A1=11mm, -1=1mm, -2=2.5mm, -7=7.5mm B3=23mm

6. PITCH OF LENGTH mm

	0	1	2	3	4	5	6	7	8	9
-		1	2.5	3	4	5	6	7.5	8	9
A	10	11	12.5	13	14	15	16	17.5	18	19
B	20	21	22.5	23	24	25	26	27.5	28	29
C	30	31	32.5	33	34	35	36	37.5	38	39
D	40	41	42.5	43	44	45	46	47.5	48	49
E	50	51	52.5	53	54	55	56	57.5	58	59
F	60	61	62.5	63	64	65	66	67.5	68	69
G	70	71	72.5	73	74	75	76	77.5	78	79
H	80	81	82.5	83	84	85	86	87.5	88	89
I	90	91	92.5	93	94	95	96	97.5	98	99

A1=11mm, -1=1mm, -2=2.5mm, -7=7.5mm B3=23mm

7. LEAD STYLE



0. no forming; 1. strait forming; 2. out kink & flat forming; 3. in kink & stand kink; 4. strait cut short lead; 5. inner forming and short lead; 6. out forming short lead; 7. in kink short lead & stand form short lead; 8. double king short lead.

8. LEAD LENGTH mm

Code	T	0	1	2	3	4	5	6	7	8	9
Meaning	Tapping	3.5	3.8±0.3	4±0.5	4.5	5±0.5	5±1	6	7	8	9
Code	A	B	C	D	E	F	G	H	J	K	L
Meaning	10	11	12	13	14	15	16	17	18	19	20
Code	M	N	P	Q	R	S	U	V	W	X	Y
Meaning	21	22	23	24	25	30	35	40	45	50	55
Code	Z										
Meaning	60above										

9.10. CONSTRUCTION CODE (internal use)

2. SPECIFICATIONS:

1. OPERATING TEMPERATURE: -40°C~+105°C
2. CAPACITANCE RANGE: 0.001μF~3.3μF
3. CAPACITANCE TOLERANCE: ±5%(J), ±10%(K), ±20%(M)
4. RATED VOLTAGE: 100/160VDC(70VAC), 250VDC(140VAC), 400VDC(200VAC), 630VDC(220VAC), 1000/1250VDC(250VAC)
5. DISSIPATION FACTOR: 0.1% MAX AT 1KHZ, 25°C
6. INSULATION RESISTANCE: 50000 MΩ (C≦0.33μF); >10000 MΩ·μF (C>0.33μF) (measured at 100Vdc 1minute)
7. MAX. Pulse rise time (dv/dt) :

V _R (ac)	Lead spacing					
	7.5mm	10mm	15mm	22.5mm	27.5mm	31mm
100/160	250	200	150	100	80	
250	400	300	200	125	100	
400	500	400	300	180	130	
630	600	500	400	250		
1000/1250			500	300	200	

3. PERFORMANCE

Test Characteristics	Test Methods JIS C 5102	Performance
Withstand voltage: Between terminals	Apply 2.0 times of rated voltage for 2 sec. charge discharge current must be 10mA	Shall be no abnormality
Withstand voltage: Between terminals	Apply 2.0 times of rated voltage for 1 to 5 sec	Shall be no abnormality
Insulation resistance: Between terminals	Apply rated voltage ±15% for 60 sec. when rated voltage under 100V. Apply 100V ±15% when rated voltage from 100V to 500V at 20°C	≤0.33μF ≧30,000MΩ (2E, 2G,2J) >9000 MΩ (2C) >0.33μF ≧10,000MΩ·μF(2E, 2G, 2J)
Insulation resistance: Between terminals & enclosure		≤0.33μF ≧900MΩ at 85°C >0.33μF ≧300MΩ·μF at 85°C
Heat proof: Insulation resistance at 85°C	Testing temperature: 85±2°C.	+5% Within-2% of the value before test
Heat proof: Rate of variation of capacitance at 85°C		
Humidity test: Appearance	Temperature: 40±2°C; Humidity: 90-95% RH	Shall be no abnormality
Humidity test: Withstand voltage	+24	Shall be no abnormality
Humidity test: Insulation resistance	Testing time: 500 - 0 Hrs. Apply voltage: rated voltage. After testing, leave it for about 16 Hrs. at standard condition	≤0.33μF ≧2700MΩ >0.33μF ≧900MΩ·μF
Humidity test: Dissipation factor		0.011 (1.1%) Max.
Humidity test: Rate of variation capacitance	Withstand voltage is 130% rated voltage, 60	Within ±10% of the value before test
Reference Standard	GB/T 14579 (IEC 60384-17; IEC 60384-16) / JIS C 5102	

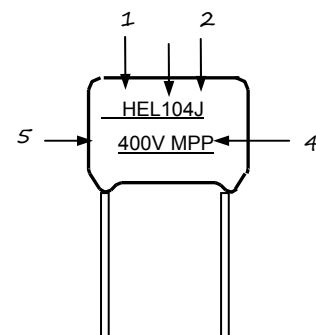
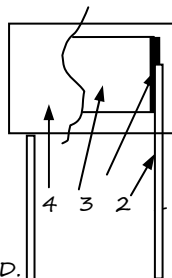
4. MEASURING & TESTING EQUIPMENTS:

1. Capacitance and Dissipation Factor (tan δ)
 - a. Hewlett Packard 4284A Precision LCR Meter;
 - b. NF 2322 LCR Meter;
 - c. Chen Hwa 104 LCR Meter.
2. Insulation Resistance:
 - a. Hewlett Packard 4329A High Resistance Meter;
 - b. TOA SM-8205 Super Megohm Meter.
3. Environmental Test Chamer:
 - a. King Son THS-A4L;
 - b. C Sun Hcc-2;
 - c. Tabai PR-1.
4. Dielectric Strength Test:

Good will GPT-515AD Puncture tester.

5. Construction

1. Tinned copper wire leads
2. Metal spray
3. Metallized polypropylene film dielectric,
4. Epoxy resin coating.



6. MARKING :

1. The trade mark of HONGZHI ELECTRONIC LTD.
2. Norminal capacitance in nF;
3. Capacitance tolerance.
4. Type of material(MPP: (Metallized Polypropylene Film).
5. DC rated voltage

7. LEAD TAPING AND PACKAGING OF RADIAL COMPONENTS FOR ROBOT INSERTION MACHINES

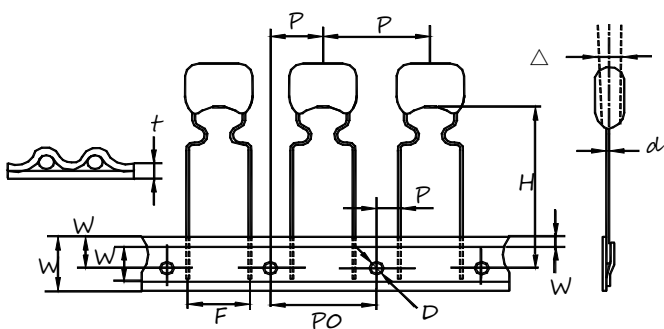


Fig. 1 Pitch=5 and

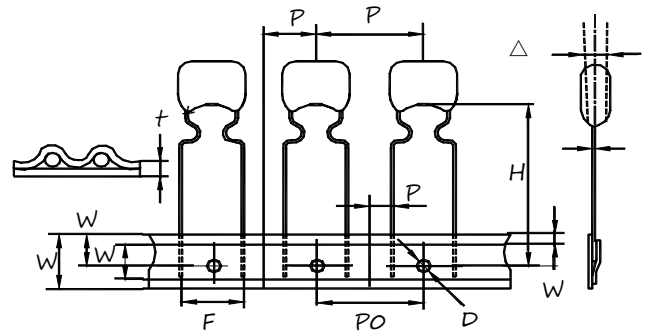


Fig. 2 Pitch=

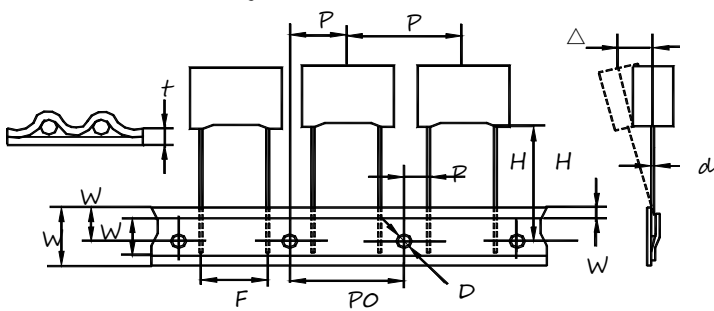


Fig. 1 Pitch=5 and

7.5mm

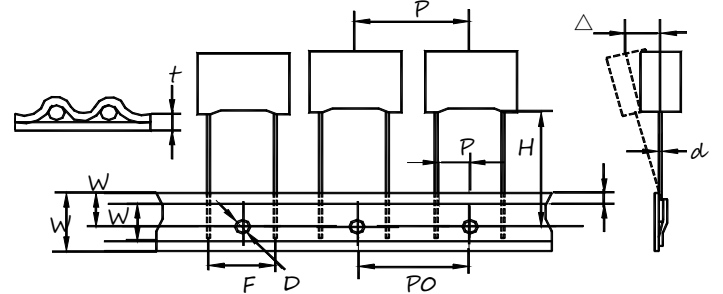


Fig. 2 Pitch=

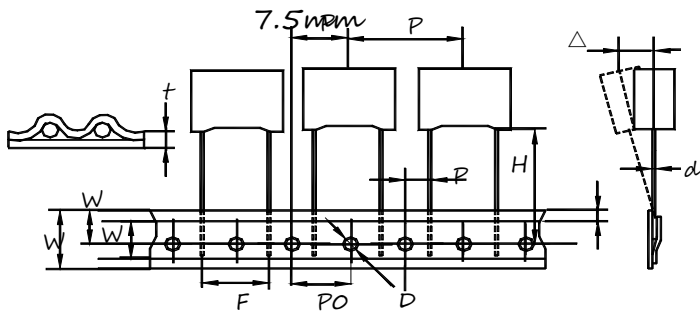


Fig. 3 Pitch=10 and

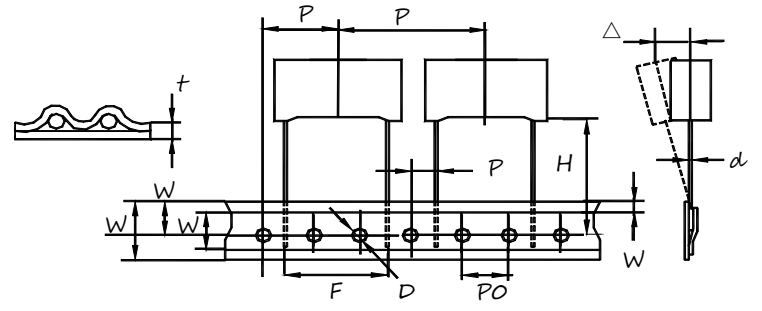


Fig. 4 Pitch=22.5 and

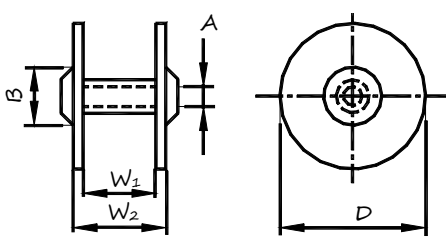
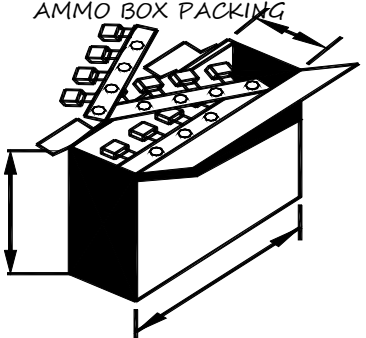
Description	Letter	Dimension (mm)						Tol.
		Fig. 1 P=5mm	Fig.1/ P=7.5mm	Fig.3 P=10mm	Fig.3 P=15m	Fig.4 P=22.5m	Fig.4 P=27.5m	
Lead wire diameter	d	0.5/0.6	0.5/0.6	0.6	0.6/0.8	0.8	0.8	±0.05
Taping pitch	P	12.7	12.7	25.4	25.4	38.1	38.1	±1
Feed hole pitch	PO	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Centering of the lead	P1	3.85	2.6/3.75	7.7	5.2	7.8	5.3	±0.7
Centering of the body	P2	6.35	6.35	12.7	12.7	19.05	19.05	±1.3
Lead spacing (pitch)	F	5	7.5	10	15	22.5	27.5	+0.6;
Component	Δh	0	0	0	0	0	0	±2
Height of component	H	18.5	18.5	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18	18	18	18	18	18	+1; -0.5
Hold down tape	WO	6	6	9	10	10	10	min
Hole position	W1	9	9	9	9	9	9	±0.5
Hold down tape	W2	3	3	3	3	3	3	max
Feed hole diameter	Do	4	4	4	4	4	4	±0.2
Tape thickness	t	0.7	0.7	0.7	0.7	0.7	0.7	±0.2

Remark: *Allowance of accumulated pitch less than 1mm at the sum of 20 pitches.

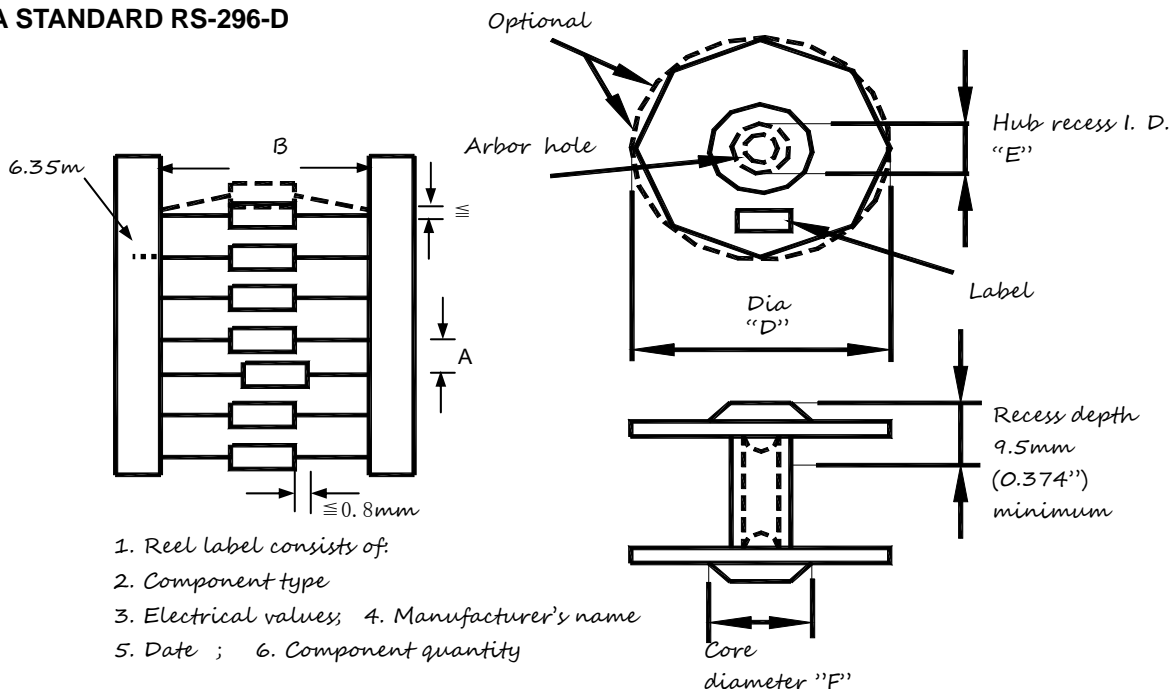
*Continuous empty component less than 3 pcs.

*Total empty on one reel less than 1%.

8. PACKING SPECIFICATIONS

PACKING TYPE	REEL PACKING		AMMO BOX PACKING	
				
DIMENSIONS UNIT:MM	A	14~30	A	50 ⁺⁵ ₋₂
	B	80 MIN	B	260±2
	D	370 MAX	C	330±2
	W1	45 ⁺⁵ ₋₂		
	W2	55MAX		
PACKING Q'TY PER REE/BOX	C≤0.022 1500 PCS	C>0.022 1000 PCS	C≤0.047 1500 PCS	C>0.047 1000 PCS

EIA STANDARD RS-296-D



CAPACITOR BODY DIAMETER	CAPACITOR PITCH "A" ±0.5mm (0.020")
≅5mm (≅0.197")	5mm or 0.200"
5.01~10mm (0.197~0.394")	10mm or 0.400"
10.01~15mm (0.394~0.591")	15mm or 0.600"

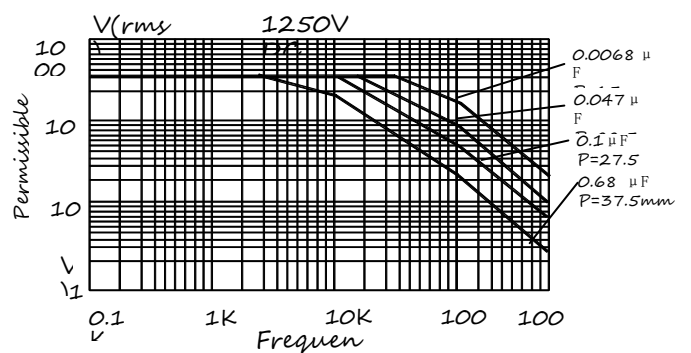
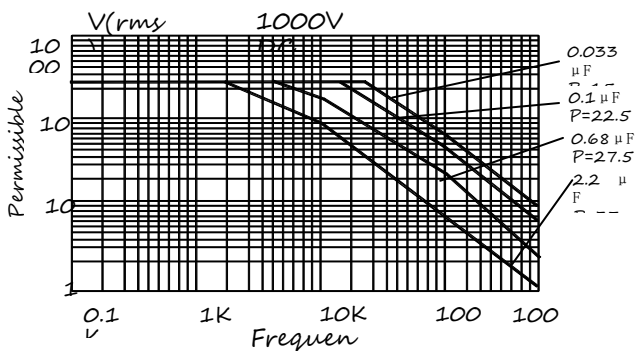
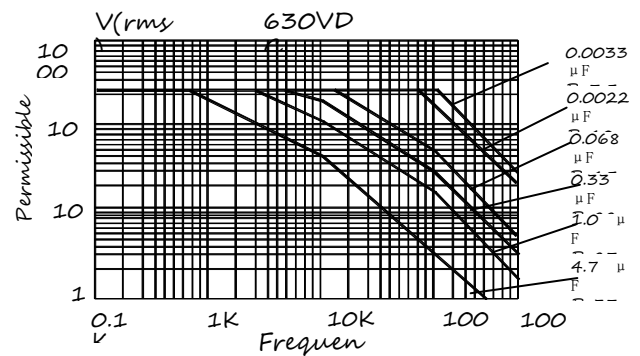
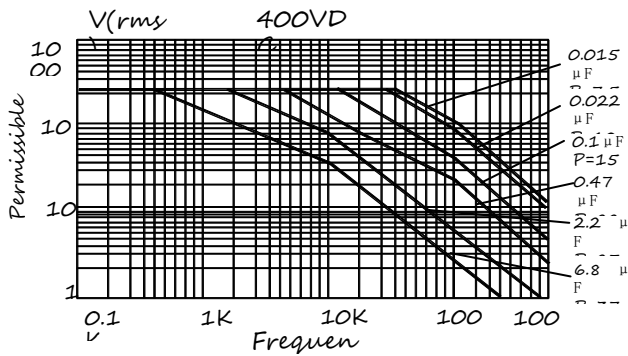
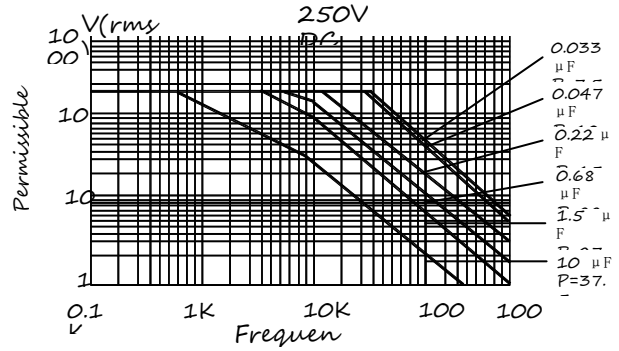
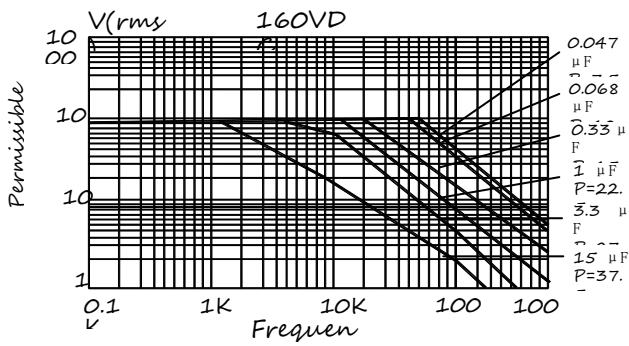
CAPACITOR BODY LENGTH	INSIDE TAPE SPACING "B" ±1.5mm (0.059")
≅16.50mm (≅0.65")	52.44mm or 2.062"
16.51~28.45mm (0.651~1.12")	63.5mm or 2.500"
28.46~37.00mm (1.121~1.45")	76.0mm or 2.874"

	C	D	E	F
EIA Std.	13.9~38.1mm (0.54~1.50")	76.2~355.6mm (3.0~14.0")	28.6~78.0mm (1.126~3.071")	34.5~92.0mm (1.374~3.626")
RF Spec	14.50mm (0.570")	381.0mm (15")	54.2mm (2.130")	61.0mm (2.401")

CAPACITOR BODY DIA.	PITCH	QUANTITY PCS/REEL
≅5.0mm	6mm	4000 max
5.1~7.0mm	10mm	2000 max
7.1~9.5mm	10mm	1000 max

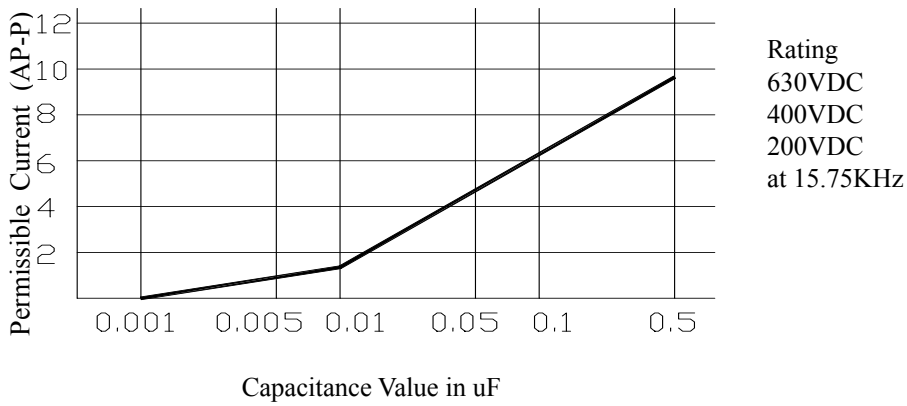
9. METALLIZED POLYPROPYLENE FILM CAPACITOR D.C. APPLICATION

Characteristics of voltage derating to frequency --- MPP

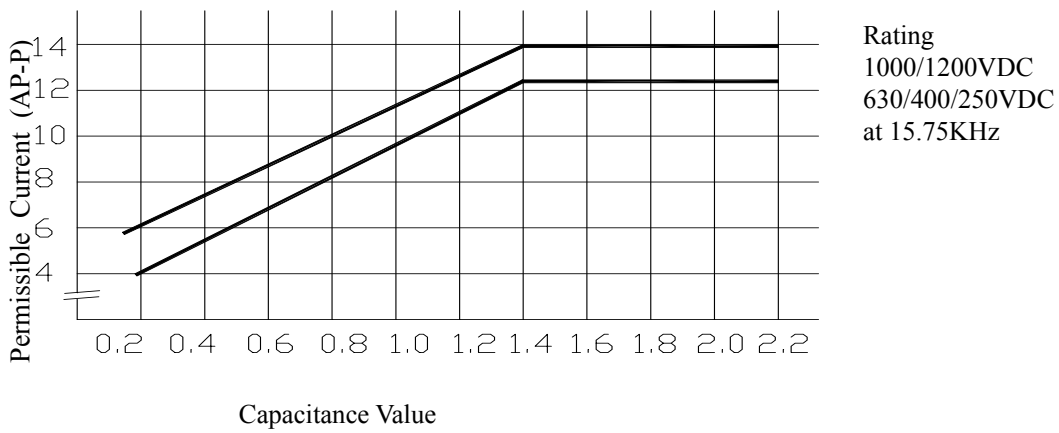


■ Characteristics of permissible current

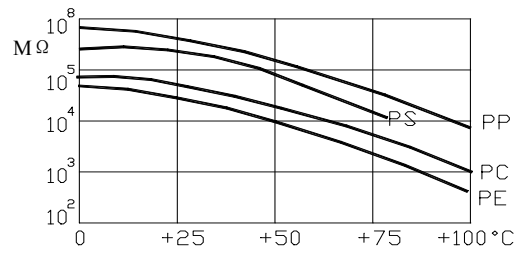
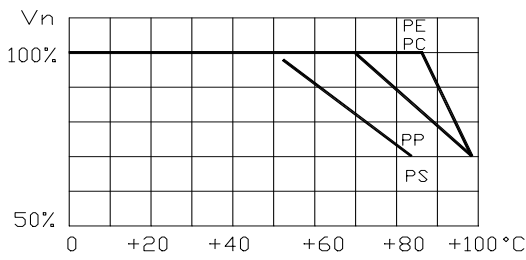
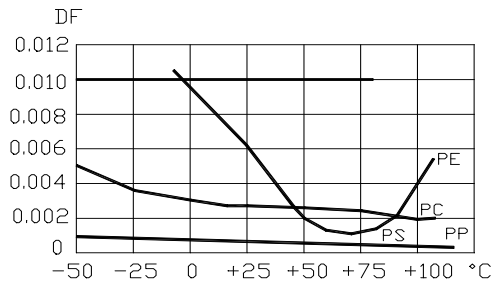
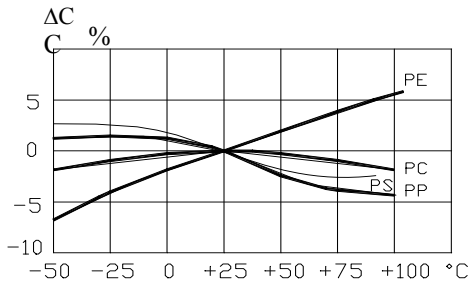
Polypropylene Capacitor



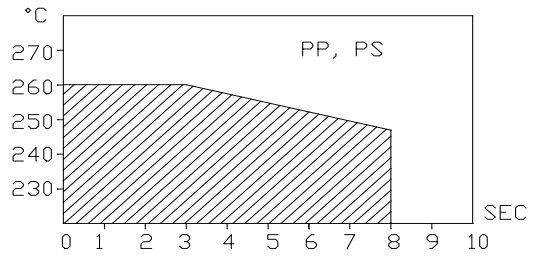
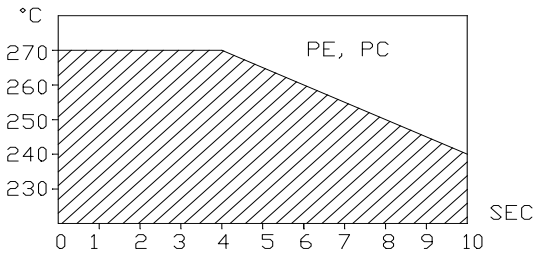
Metallized Polypropylene Capacitor



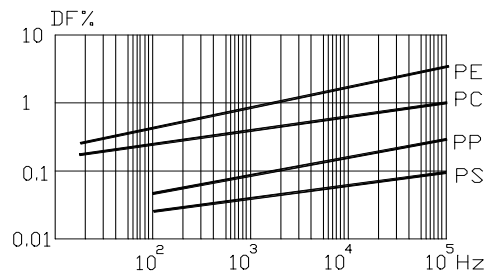
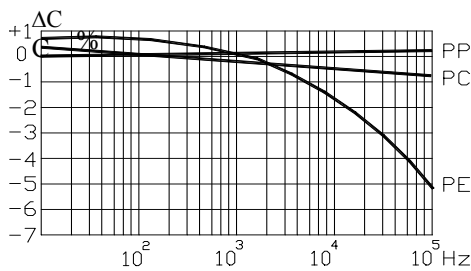
■ Capacitance 、 DF 、 Vrms and IR change as a function of temperature



■ Soldering temperature versus time



■ Capacitance and DF change as a function of frequency



NOTE:

The graphs illustrated above are for reference only wave form of current and temperature rise of capacitor are key factors to determine permissible current. For actual applicant on. Consult our sales representative or sales office.

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