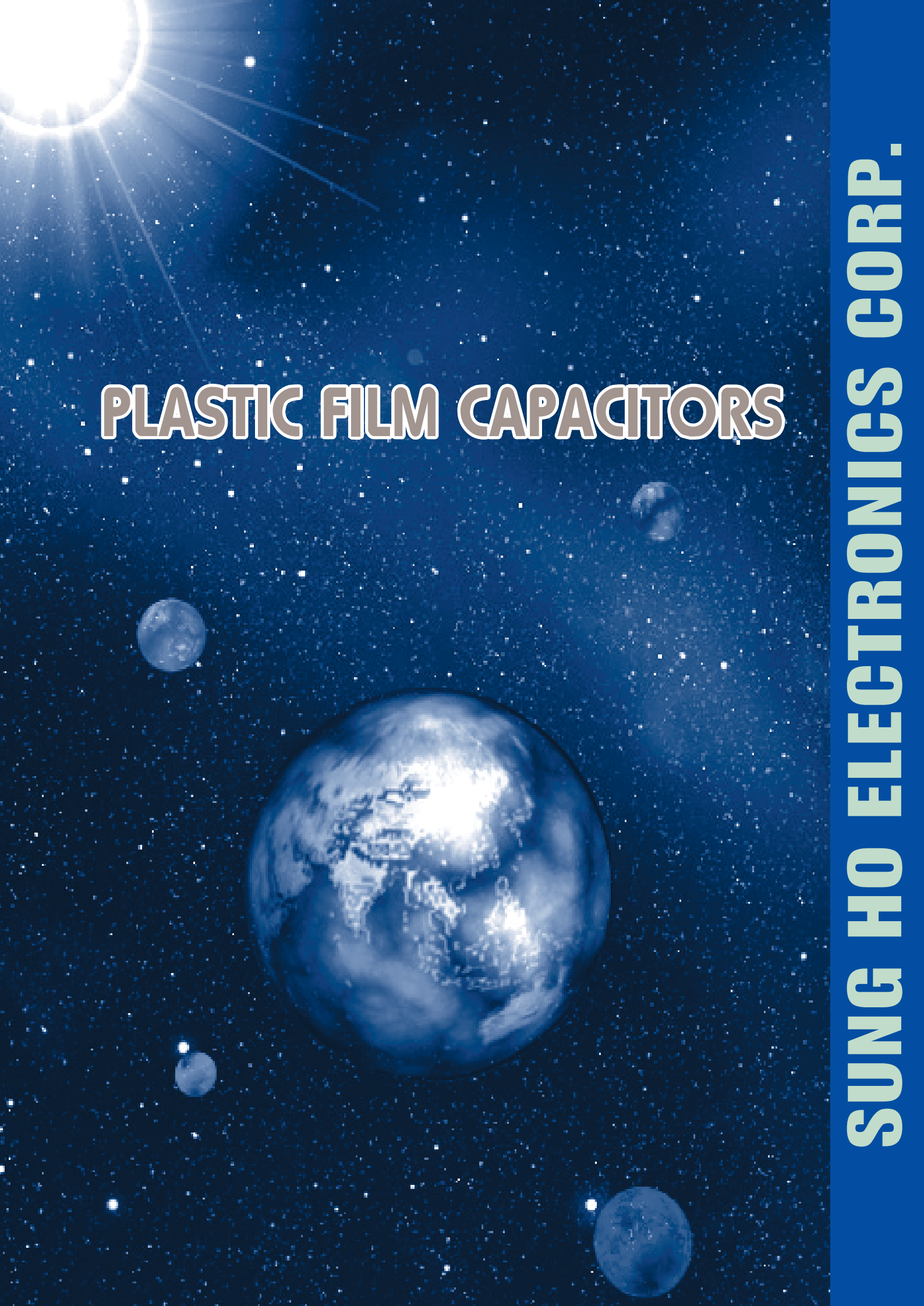


A cosmic background featuring a large, bright sun in the top left corner with rays extending across the frame. The central focus is a detailed image of the Earth, showing continents and clouds. Surrounding the Earth are several smaller, blue-tinted images of the Moon at various phases. The entire scene is set against a deep blue space filled with numerous white stars of varying sizes.

PLASTIC FILM CAPACITORS

SUNG HO ELECTRONICS CORP.

Corporate Overview



회 사 연 혁

- 1973. 05. CAPACITOR제조 외국인 합작투자 인허가. 일본
합작선 : 일본신영(주) 한일 합작비율 : 51%:49%
- 1997. 12. 일본 합작선 투자 지분 전액인수
- 1998. 09. 품질시스템(ISO-9002) 인증
- 2000. 09. 해외 현지법인 설립(중국 광둥성 주해성호전자자유한공사)
- 2001. 11. KOSDAQ 등록
- 2002. 07. ISO 9001:2000 인증(전환)
2002 Korean Technology Fast 50 우수상
안산지점 설립(PSU 사업부)
- 2004. 05. 부품소재 전문기업 선정 (산업자원부)
- 2005. 07. ISO 14001:2004 인증
- 2005. 12. 대한민국 신성장경영대상 정보통신분야 최우수상 수상
- 2006. 12. 중국 산둥성 위해한성성호전자 설립
- 2007. 01. 기술혁신형중소기업(INNO-BIZ)선정 중기청
- 2008. 04. LED조명용 PSU 개발완료 및 납품시작
- 2008. 12. 지경부 신재생에너지 개발사업자 선정(태양광 인버터)
- 2010. 03. ROUND Type 제조방법 및 소음제거방법 특허획득
- 2010. 07. 산둥성 위해신 신축공장 완공
- 2010. 08. Box Type 필름콘덴서 전용 조립장치 특허

Company Brief

- May. 1973 Jin Young Electronics Co., LTD. established on joint
venture of foreign investment Shinyei Kaisha (Japan)
Jin Young (51%), Shinyei (investment share 49%)
- Dac. 1997 Acquisition of all invetment share form Shinyei Kaisha
- Sep. 1998 Obtained ISO-9002 certificate
- Sep. 2000 Zhuhai Factory(2nd Factory) established with company
name Zhuhai Sung Ho Electronics Co., LTD.
- Nov. 2001 Enrolled in Korea stock market KOSDAQ
- July. 2002 Obtained ISO-9001:2000 (Quality and Management
System Certificate)
- July. 2002 Selected for one of 50 companies developed in high
speed
- July. 2002 An-San factory opened with PSU (Power Supply Unit)
- May. 2004 Selected Material and Componet Special Company
- Dec. 2005 "Korea New Development Award" First Prize in IT Sector
- Dec. 2006 Weihai Factory (3rd Factory) established with company
name Weihai Sung Ho Electronics Co., LTD.
- Jan. 2007 Selected INNO-BIZ Company by the Small and Medium
Business Administration
- Apr. 2008 Completed development of PSU for LED lightings and
launched in the market.
- Dec. 2008 Selected Developer of New and Renewable energy by
Korean Government.
- Mar. 2010 Acquired a patent for Round-type; low noise level Capacitor.
- July. 2010 Weihai Sung Ho Co., LTD. began to run new factories.
- Aug. 2010 Acquired a patent for "Box-type film Capacitor assembly
machine"



China(Zhuhai) Factory-2nd Factory

Product Summary

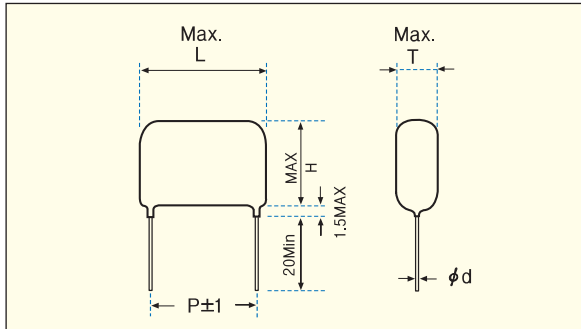
TYPE	KIND	APPEARANCE	EXTERIOR FEATURE	APPLICATION	TEMP RANGE (Celsius)
MPE	Matallized Polyester Film Capacitor		Resin Dipped epoxy power	General Purpose	-25 to +105
MPP	Matallized Polypropylene Film Capacitor		Resin Dipped epoxy power	High frequency high current Purpose	-25 to +105
NPPS	Polypropylene & Foil / Matallized Polyester Film Capacitor		Resin Dipped epoxy power	High frequency high current Purpose	-25 to +105
NPP	Polypropylene Film Capacitor		Resin Dipped epoxy power	General Purpose	-25 to +105
MPP(R)	Matallized Polypropylene Film Capacitor -Round Type		Resin Dipped epoxy power	High frequency high current Purpose Ultimate Noise Control	-25 to +105

Product Summary

TYPE	KIND	APPEARANCE	EXTERIOR FEATURE	APPLICATION	TEMP RANGE (Celsius)
CMPP	Case-Type Metallized Polypropylene Film Capacitor (X2-Capacitor)		Case type	Interference suppressor safety standard approval Capacitor	-40 to +105
FMPP	Fuse-Type Metallized Polypropylene Film Capacitor		Resin Dipped epoxy power	Safe small horizontal Resonance Circuit	-25 to +105
FMPP(R)	Fuse-Type Metallized Polypropylene Film Capacitor Round-Type		Resin Dipped epoxy power	FMPP with Ultimate Noise Control	-25 to +105
FMPE	Fuse-Type Metallized Polyester Film Capacitor		Resin Dipped epoxy power	Safe small General Purpose	-25 to +105
BMPP	Box-Type Metallized Polypropylene Film Capacitor		Case type	Box type Horizontal Resonance Circuit	-25 to +105
BMPE	Box-Type Metallized Polyester Film Capacitor		Case type	Box type General Purpose	-25 to +105

MPE

METALLIZED POLYESTER FILM CAPACITOR



■ FEATURES

- Dielectric : Polyester Film (Polyethylene terephthalate)
- Plates : aluminium layer deposited by evaporation under vacuum.
- Winding : non-inductive type.
- Leads : tinned wire
- Protection : Coated flame retardant epoxy resin.
- Marking : Manufacturer's logo, series dielectric code, capacitance, tolerance, D.C. nominal voltage.
- Operating temperature : -25°C to $+105^{\circ}\text{C}$

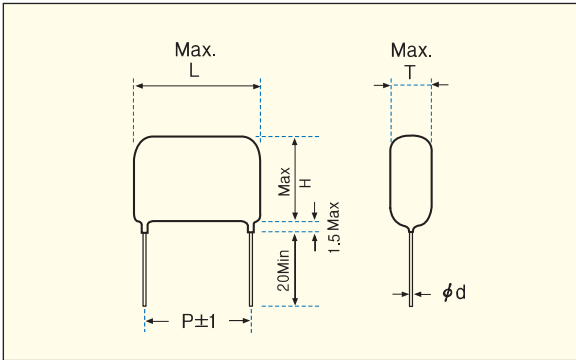
■ ELECTRICAL CHARACTERISTICS

- Nominal voltage(V_R) : 100Vdc, 250Vdc, 400Vdc, 630Vdc
- Capacitance range : 0.01 μF to 5.6 μF
- Capacitance tolerance : (measured at 1 KHz)
 $\pm 5\%$ (J) $\pm 10\%$ (K) $\pm 20\%$ (M)
- Dissipation Factor (DF) : (measured at 1 KHz)
 ≤ 1.0 (at $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
- Insulation Resistance : Test conditions
Temperature: $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Voltage charge time: 1minute
Voltage charge: 100Vdc
 $\geq 9,000\text{M}\Omega$ for $C \leq 0.33\mu\text{F}$
 $\geq 3,000\Omega\text{F}$ for $C > 0.33\mu\text{F}$
- Test voltage between terminations : $1.75 \times V_R$ applied for
2sec. (at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

■ Explanation of part Number

MPE	250	104	K
Product Code	Voltage in DC	Capacitance Code	Tolerance $\pm 10\%$

CAPACITANCE (μF)	CODE	100 VDC					250 VDC					400 VDC					630 VDC				
		L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)
0.01	103						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6
0.012	123						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6
0.015	153						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.5	10.0	0.6
0.018	183						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	13.0	10.0	6.0	10.0	0.6
0.022	223						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	13.0	11.0	6.5	10.0	0.6
0.027	273						13.0	10.0	5.0	10.0	0.6	13.0	10.0	5.0	10.0	0.6	19.0	11.0	6.5	10.0	0.6
0.033	333						13.0	10.0	5.0	10.0	0.6	13.0	11.0	5.5	10.0	0.6	19.0	11.5	6.5	15.0	0.8
0.039	393						13.0	10.0	5.0	10.0	0.6	13.0	11.0	5.5	10.0	0.6	19.0	12.0	6.0	15.0	0.8
0.047	473						13.0	10.0	5.0	10.0	0.6	13.0	11.0	6.0	10.0	0.6	19.0	12.0	6.5	15.0	0.8
0.056	563						13.0	10.0	5.0	10.0	0.6	19.0	11.0	5.0	15.0	0.8	19.0	12.5	7.0	15.0	0.8
0.068	683						13.0	10.0	5.0	10.0	0.6	19.0	11.5	5.0	15.0	0.8	19.0	13.0	7.5	15.0	0.8
0.082	823						13.0	10.0	5.0	10.0	0.6	19.0	12.0	5.5	15.0	0.8	19.0	14.0	8.0	15.0	0.8
0.1	104	13.0	10.0	5.0	10.0	0.6	13.0	11.0	5.5	10.0	0.6	19.0	12.5	6.0	15.0	0.8	19.0	15.0	8.5	15.0	0.8
0.12	124	13.0	10.0	5.0	10.0	0.6	13.0	11.5	6.0	10.0	0.6	19.0	13.0	6.0	15.0	0.8	19.0	16.0	9.0	15.0	0.8
0.15	154	13.0	10.0	5.0	10.0	0.6	13.0	12.0	6.0	10.0	0.6	19.0	13.5	6.5	15.0	0.8	26.0	16.0	8.0	22.5	0.8
0.18	184	13.0	10.0	5.5	10.0	0.6	13.0	12.0	6.0	10.0	0.6	19.0	14.0	7.0	15.0	0.8	26.0	16.5	8.5	22.5	0.8
0.22	224	13.0	11.0	6.0	10.0	0.6	13.0	11.5	6.0	10.0	0.6	19.0	14.5	8.0	15.0	0.8	26.0	17.0	9.0	22.5	0.8
0.27	274	13.0	11.5	6.5	10.0	0.6	13.0	12.0	6.5	10.0	0.6	26.0	15.0	8.0	22.5	0.8	26.0	18.0	10.0	22.5	0.8
0.33	334	13.0	12.0	7.0	10.0	0.6	13.0	12.5	7.0	10.0	0.6	26.0	15.5	8.5	22.5	0.8	26.0	19.0	11.0	22.5	0.8
0.39	394	13.0	12.5	7.5	10.0	0.6	19.0	13.5	7.0	15.0	0.8	26.0	16.5	9.5	22.5	0.8	31.0	19.0	11.5	26.5	0.8
0.47	474	14.0	13.0	8.0	10.0	0.6	19.0	14.5	7.5	15.0	0.8	26.0	17.0	10.0	22.5	0.8	31.0	20.0	12.5	26.5	0.8
0.56	564	14.0	13.5	8.5	10.0	0.6	19.0	15.0	8.0	15.0	0.8	31.0	18.0	10.0	26.5	0.8	31.0	21.0	13.5	26.5	0.8
0.68	684	19.0	13.0	7.5	15.0	0.8	19.0	15.5	8.5	15.0	0.8	31.0	19.0	11.0	26.5	0.8	31.0	22.0	14.5	26.5	0.8
0.82	824	19.0	13.5	8.0	15.0	0.8	26.0	14.0	8.0	22.5	0.8	31.0	20.0	12.5	26.5	0.8	31.0	23.0	15.5	26.5	0.8
1.0	105	19.0	14.0	8.5	15.0	0.8	26.0	15.0	8.5	22.5	0.8	31.0	21.0	13.5	26.5	0.8	31.0	25.0	16.0	26.5	0.8
1.2	125	19.0	15.0	9.5	15.0	0.8	26.0	16.0	9.0	22.5	0.8	31.0	22.0	14.5	26.5	0.8					
1.5	155	19.0	16.0	10.0	15.0	0.8	26.0	17.0	9.5	22.5	0.8	31.0	24.0	15.0	26.5	0.8					
1.8	185	26.0	16.0	9.0	22.5	0.8	26.0	18.0	10.0	22.5	0.8	31.0	25.5	15.5	26.5	0.8					
2.2	225	26.0	17.0	10.0	22.5	0.8	26.0	19.0	11.0	22.5	0.8	31.0	27.0	16.0	26.5	0.8					
2.5	255	26.0	18.0	11.0	22.5	0.8	31.0	18.0	11.5	26.5	0.8										
2.8	285	26.0	19.0	12.0	22.5	0.8	31.0	19.0	12.0	26.5	0.8										
3.3	335	26.0	20.0	13.0	22.5	0.8	31.0	20.0	12.5	26.5	0.8										
3.5	355	31.0	21.0	14.0	22.5	0.8	31.0	21.0	13.0	26.5	0.8										
3.8	395	31.0	19.5	11.0	26.5	0.8	31.0	22.0	13.5	26.5	0.8										
4.7	475	31.0	20.5	12.0	26.5	0.8	31.0	23.0	14.0	26.5	0.8										
5.6	565	31.0	21.5	13.0	26.5	0.8															
8.2	825	31.0	22.5	14.0	26.5	0.8															
10.0	106	31.0	24.0	15.0	26.5	0.8															

MPP**METALLIZED POLYPROPYLENE FILM CAPACITOR****FEATURES**

- Dielectric : Polypropylene Film
- Plates : aluminium layer deposited by evaporation under vacuum.
- Winding : non-inductive type.
- Leads : tinned wire
- Protection : Coated flame retardant epoxy resin.
- Marking : Manufacturer's logo, series dielectric code, capacitance, tolerance, D.C.Rated voltage.
- Operating temperature : -25°C to $+105^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

- Rated voltage (V_R) : 100Vdc, 250Vdc, 400Vdc, 630Vdc
- Capacitance range : $0.047\mu\text{F}$ to $3.5\mu\text{F}$
- Capacitance tolerance : (measured at 1 KHz)
 $\pm 5\%(\text{J}) \pm 10\%(\text{K})$
- Dissipation Factor (DF) : (measured at 1 KHz)
 ≤ 0.1 (at $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
- Insulation Resistance : Test conditions
Temperature: $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Voltage charge time: 1minute
Voltage charge: 100Vdc
 $\geq 30,000\text{M}\Omega$ for $C \leq 0.33\mu\text{F}$
 $\geq 10,000\text{M}\Omega$ for $C > 0.33\mu\text{F}$
- Test voltage between terminations : $1.75 \times V_R$ applied for
2sec. (at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

Explanation of part Number

MPP	250V	474	J
Product Code	Voltage in DC	Nominal Capacitance Code	Tolerance $\pm 5\%$

CAPACITANCE (μF)	CODE	100 VDC					250 VDC					400 VDC					630 VDC				
		L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)	L	H	T	P	d(ϕ)
0.047	473						19.0	15.0	7.5	15.0	0.8	19.0	13.0	7.5	15.0	0.8	19.0	13.0	7.5	15.0	0.8
0.056	563						19.0	15.0	7.5	15.0	0.8	19.0	14.0	8.0	15.0	0.8	19.0	14.0	8.0	15.0	0.8
0.068	683						19.0	15.0	8.0	15.0	0.8	19.0	15.0	8.5	15.0	0.8	19.0	15.0	8.5	15.0	0.8
0.082	823						19.0	15.0	8.5	15.0	0.8	19.0	16.0	9.5	15.0	0.8	19.0	16.0	9.5	15.0	0.8
0.1	104	16.0	13.0	6.5	13.5	0.6	19.0	15.5	6.0	15.0	0.8	19.0	14.0	9.0	15.0	0.8	26.0	16.0	8.5	22.5	0.8
0.12	124	16.0	13.0	6.5	13.5	0.6	19.0	16.0	6.5	15.0	0.8	19.0	14.0	9.5	15.0	0.8	26.0	17.5	9.0	22.5	0.8
0.15	154	16.0	14.0	7.0	13.5	0.6	19.0	16.5	7.0	15.0	0.8	19.0	15.0	10.0	15.0	0.8	26.0	16.0	8.5	22.5	0.8
0.18	184	16.0	15.0	7.5	13.5	0.6	19.0	17.0	8.0	15.0	0.8	19.0	16.0	10.5	15.0	0.8	26.0	19.0	11.0	22.5	0.8
0.22	224	19.0	13.0	6.5	15.0	0.8	19.0	17.5	8.0	15.0	0.8	19.0	17.5	11.0	15.0	0.8	26.0	20.5	11.5	22.5	0.8
0.27	274	19.0	14.0	7.0	15.0	0.8	19.0	18.0	9.0	15.0	0.8	26.0	18.0	10.0	22.5	0.8	26.0	21.5	12.5	22.5	0.8
0.33	334	19.0	14.5	7.0	15.0	0.8	19.0	18.0	9.5	15.0	0.8	26.0	19.0	11.0	22.5	0.8	26.0	22.5	14.5	22.5	0.8
0.39	394	19.0	15.0	8.0	15.0	0.8	19.0	18.0	9.5	15.0	0.8	26.0	20.0	12.0	22.5	0.8	26.0	24.0	15.5	22.5	0.8
0.47	474	19.0	15.0	8.5	15.0	0.8	26.0	17.0	10.0	22.5	0.8	26.0	21.5	13.0	22.5	0.8	31.0	24.0	15.5	26.5	0.8
0.56	564	19.0	16.0	10.0	15.0	0.8	26.0	17.0	10.0	22.5	0.8	26.0	22.5	14.0	22.5	0.8	31.0	25.5	17.0	26.5	0.8
0.68	684	19.0	17.0	11.0	15.0	0.8	26.0	18.5	11.0	22.5	0.8	26.0	24.0	15.0	22.5	0.8	31.0	27.0	19.0	26.5	0.8
0.82	824	19.0	18.0	12.0	15.0	0.8	26.0	19.0	12.0	22.5	0.8	26.5	25.0	16.0	22.5	0.8	31.0	28.5	20.0	26.5	0.8
1.0	105	19.0	19.0	13.0	15.0	0.8	26.0	20.0	13.0	22.5	0.8	31.0	25.0	17.0	26.5	0.8					
1.2	125	26.0	19.0	12.0	22.5	0.8	26.0	21.0	14.0	22.5	0.8	31.0	27.0	18.5	26.5	0.8					
1.5	155	26.0	20.0	13.0	22.5	0.8	26.0	22.5	15.0	22.5	0.8	31.0	29.0	20.5	26.5	0.8					
1.8	185	26.0	21.0	14.0	22.5	0.8	31.0	21.5	14.0	26.5	0.8										
2.2	225	26.0	22.0	15.0	22.5	0.8	31.0	22.5	15.0	26.5	0.8										
2.5	255	26.0	23.0	16.0	22.5	0.8	31.0	23.5	16.0	26.5	0.8										
2.7	275	31.0	23.0	15.0	26.5	0.8	31.0	24.5	17.0	26.5	0.8										
3.3	335	31.0	24.0	16.0	26.5	0.8	31.0	25.5	18.0	26.5	0.8										
3.5	355	31.0	25.0	17.0	26.5	0.8	31.0	27.0	19.0	26.5	0.8										

NPPS

FILM-FOIL / POLYPROPYLENE FILM / METAL FILM CAPACITOR

FEATURES

NPPS type capacitors are wound polypropylene film, Double metallized polypropylene film and aluminum foil for extended foil construction and lead wires are completely welded extended foil both sides, and then dipped flame retardant class resin powder. These Capacitors have low dissipation factor, Series Capacitance change at high frequency and High Insulation Resistance under high humidity conditions.

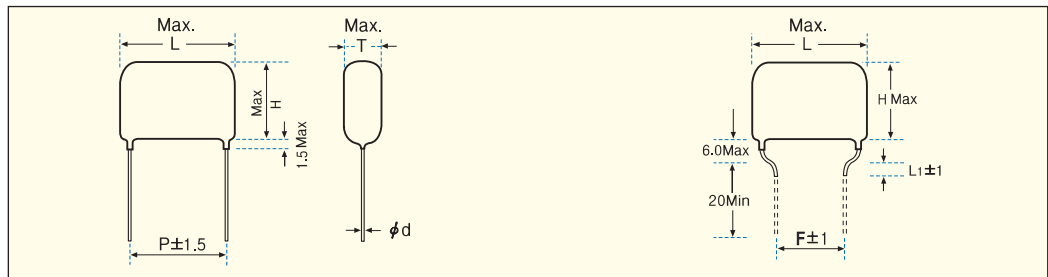
ELECTRICAL CHARACTERISTICS

ITEM	Characteristics	ITEM	Characteristics
Capacitance Range	0.001 to 0.1 mfd.	Dissipation Factor	0.1% max. (1kHz)
Rated Voltage	1000V, 1250V, 1600V, 2000V, 2500V	Insulation Resistance	30.000 MΩmin
Capacitance Tolerance	±2%, ±3%, ±5%, ±10%	Test Voltage	VR × 2.0
Operating Temp. Range	-25°C to +105°C		

Explanation of part Number

NPPS	1600V	102	J
Product Code	Voltage in DC	Nominal Capacitance Code	Tolerance ±5%

DIMENSIONS



(mm)

CAPACITANCE (μF)	CODE	1000 VDC				1250 VDC				1600 VDC				2000 VDC				2500 VDC			
		L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P
0.01	102	23.0	11.0	6.0	17.5	23.0	11.0	6.0	17.5	23.0	12.0	7.0	17.5	23.0	13.0	8.0	17.5	29.0	15.0	7.5	22.5
0.0012	122	23.0	11.5	6.0	17.5	23.0	11.5	6.0	17.5	23.0	13.0	7.5	17.5	23.0	14.0	9.0	17.5	29.0	15.5	10.0	22.5
0.0015	152	23.0	12.5	6.5	17.5	23.0	12.0	6.5	17.5	23.0	14.0	8.0	17.5	23.0	15.0	10.0	17.5	29.0	16.5	11.0	22.5
0.0018	182	23.0	12.0	6.5	17.5	23.0	12.5	7.0	17.5	23.0	15.0	8.5	17.5	29.0	13.5	7.0	22.5	29.0	17.0	11.5	22.5
0.0022	222	23.0	12.0	6.5	17.5	23.0	13.0	7.5	17.5	23.0	16.0	9.0	17.5	29.0	15.0	8.0	22.5	29.0	18.0	12.0	22.5
0.0027	272	23.0	12.5	7.0	17.5	23.0	13.5	8.0	17.5	23.0	17.0	9.5	17.5	29.0	16.0	9.0	22.5	29.0	18.0	12.5	22.5
0.0033	332	23.0	13.5	7.0	17.5	23.0	14.0	8.5	17.5	29.0	13.5	8.0	22.5	29.0	17.0	9.5	22.5	29.0	19.0	12.5	22.5
0.0039	392	23.0	14.0	7.5	17.5	23.0	14.5	9.0	17.5	29.0	15.0	8.5	22.5	29.0	17.5	10.0	22.5	29.0	19.0	13.0	22.5
0.0047	472	23.0	14.5	8.0	17.5	29.0	14.0	7.0	22.5	29.0	16.0	9.0	22.5	29.0	18.5	10.5	22.5	29.0	20.0	14.0	22.5
0.0056	562	23.0	15.0	9.0	17.5	29.0	14.5	7.5	22.5	29.0	17.0	9.5	22.5	29.0	19.0	11.0	22.5	29.0	22.0	16.0	22.5
0.0068	682	29.0	14.5	8.0	22.5	29.0	15.5	8.0	22.5	29.0	18.0	10.0	22.5	29.0	20.0	12.0	22.5	29.0	23.0	18.0	22.5
0.0082	882	29.0	15.0	8.5	22.5	29.0	16.0	8.5	22.5	29.0	18.0	11.0	22.5	29.0	21.0	13.5	22.5	29.0	25.0	19.0	22.5
0.01	103	29.0	15.5	9.0	22.5	29.0	16.5	9.5	22.5	29.0	19.5	12.0	22.5	29.0	23.0	15.0	22.5	29.0	27.0	20.0	22.5
0.012	123	29.0	16.0	9.5	22.5	29.0	17.5	10.0	22.5	29.0	20.5	13.0	22.5	32.0	20.0	12.0	26.5				
0.015	153	29.0	17.0	10.0	22.5	29.0	18.5	11.0	22.5	29.0	21.5	14.0	22.5	32.0	21.0	13.0	26.5				
0.018	183	29.0	18.0	11.0	22.5	29.0	19.5	12.0	22.5	29.0	23.0	15.5	22.5	32.0	22.0	14.0	26.5				
0.022	223	29.0	19.0	12.0	22.5	29.0	21.0	13.5	22.5	32.0	20.0	12.5	26.5	32.0	23.0	16.0	26.5				
0.027	273	29.0	20.0	13.0	22.5	29.0	22.5	15.0	22.5	32.0	21.0	13.5	26.5	32.0	24.5	17.5	26.5				
0.033	333	29.0	21.0	14.0	22.5	32.0	20.0	13.0	26.5	32.0	22.0	14.5	26.5	32.0	27.0	20.0	26.5				
0.039	393	29.0	22.0	15.0	22.5	32.0	20.5	13.5	26.5	32.0	23.5	16.0	26.5								
0.047	473	32.0	20.0	12.0	26.5	32.0	22.0	14.5	26.5	32.0	25.0	17.5	26.5								
0.056	563	32.0	21.0	13.0	26.5	32.0	23.5	16.0	26.5	32.0	26.5	19.0	26.5								
0.068	683	32.0	22.0	14.5	26.5	32.0	24.5	17.0	26.5												
0.082	823	32.0	24.0	16.0	26.5	32.0	25.5	18.5	26.5												
0.1	104	32.0	26.0	17.5	26.5																

NPP

FILM-FOIL POLYPROPYLENE FILM CAPACITOR

■ FEATURES

NPP type capacitors are wound polypropylene film and two aluminum foil for extended foil construction and lead wires are completely welded extended foil both sides, and then coated epoxy powder. These Capacitors have low dissipation factor, low capacitance change, and high Insulation Resistance under high humidity conditions.

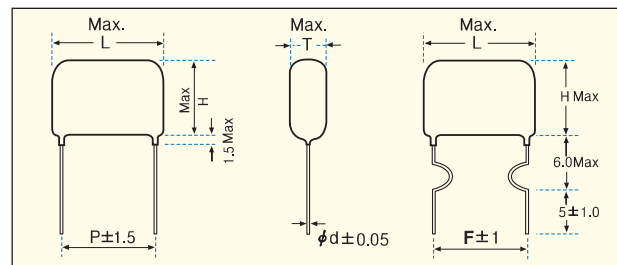
■ ELECTRICAL CHARACTERISTICS

ITEM	Characteristics	ITEM	Characteristics
Capacitance Range	0.001 to 1.0 mfd.	Dissipation Factor	0.1% max.(1kHz)
Rated Voltage(V dc)	100, 200, 400, 630, 800	Insulation Resistance	30.000 MΩmin
Capacitance Tolerance	±2%, ±3%, ±5%, ±10%	Test Voltage	VR×2.0
Operating Temp. Range	-25°C to +105°C		

■ Explanation of part Number

NPP	100V	102	J
Product Code	Voltage in DC	Nominal Capacitance	Tolerance ±5%

■ DIMENSIONS



(mm)

CAPACITANCE (μF)	CODE	100(50) VDC				200/250 VDC				400 VDC				630 VDC				800 VDC			
		L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P	L	H	T	P
0.001	102	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0
0.0012	122	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.5	5.5	10.0
0.0015	152	11.0	10.0	5.5	7.5	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	12.0	5.5	10.0	15.0	13.0	6.0	10.0
0.0018	182	11.0	10.0	5.5	7.5	15.0	12.0	6.0	10.0	15.0	12.0	6.0	10.0	15.0	12.0	5.5	10.0	15.0	13.0	6.5	10.0
0.0022	222	11.0	10.0	5.5	7.5	15.0	12.0	6.0	10.0	15.0	12.0	6.0	10.0	15.0	12.0	5.5	10.0	20.0	12.5	6.0	16.5
0.0027	272	11.0	10.0	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	15.0	12.5	6.5	10.0	20.0	13.0	6.5	16.5
0.0033	332	11.0	10.0	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	13.5	6.5	16.5
0.0039	392	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.0	7.0	16.5
0.0047	472	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.5	7.0	16.5
0.0056	562	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.0	7.0	16.5
0.0068	682	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	15.5	7.5	16.5
0.0082	822	11.0	10.5	5.5	7.5	15.0	12.5	6.5	10.0	15.0	12.5	6.5	10.0	20.0	13.5	7.0	16.5	20.0	16.0	8.0	16.5
0.01	103	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	20.0	13.0	7.0	16.5	20.0	14.0	7.5	16.5	20.0	17.0	8.5	16.5
0.012	123	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	20.0	13.0	7.5	16.5	20.0	15.0	8.0	16.5	20.0	17.5	9.0	16.5
0.015	153	11.0	10.5	5.5	7.5	15.0	12.0	6.5	10.0	20.0	13.0	8.0	16.5	20.0	15.5	9.0	16.5	31.0	16.0	8.0	26.5
0.018	183	15.0	11.0	5.5	10.0	20.0	12.0	6.5	16.5	20.0	13.5	8.0	16.5	20.0	16.0	9.5	16.5	31.0	17.0	8.5	26.5
0.022	223	15.0	11.5	5.5	10.0	20.0	12.0	6.5	16.5	20.0	14.0	7.5	16.5	21.0	17.0	10.5	16.5	31.0	17.5	9.0	26.5
0.027	273	15.0	12.0	6.5	10.0	20.0	13.0	6.5	16.5	20.0	14.5	8.0	16.5	21.0	17.5	10.5	16.5	31.0	18.5	10.0	26.5
0.033	333	15.0	13.0	7.0	10.0	20.0	13.5	7.0	16.5	20.0	15.0	9.0	16.5	21.0	18.0	11.0	16.5	31.0	19.0	11.0	26.5
0.039	393	20.0	12.5	6.0	10.0	20.0	14.0	7.5	16.5	20.0	15.5	9.5	16.5	21.0	19.0	12.0	16.5	31.0	20.0	11.5	26.5
0.047	473	20.0	13.0	6.0	16.5	20.0	14.5	8.0	16.5	20.0	16.0	9.5	16.5	21.0	19.5	12.0	16.5	31.0	21.0	12.5	26.5
0.056	563	20.0	13.5	6.5	16.5	20.0	15.0	8.5	16.5	20.0	17.0	10.0	16.5	31.0	19.5	11.0	26.5	31.0	22.0	13.5	26.5
0.068	683	20.0	14.0	7.0	16.5	20.0	16.0	9.0	16.5	20.0	17.5	11.0	16.5	21.0	20.0	11.5	26.5	31.0	23.5	15.0	26.5
0.082	823	20.0	14.0	7.5	16.5	20.0	16.5	10.0	16.5	20.0	18.5	12.0	16.5	21.0	21.0	12.5	26.5	31.0	25.0	16.5	26.5
0.1	104	20.0	15.0	8.0	16.5	20.0	17.5	10.5	16.5	31.0	18.5	10.0	26.5	21.0	22.0	14.0	26.5	31.0	26.5	18.0	26.5
0.12	124	20.0	15.5	8.5	16.5	20.0	18.5	11.5	16.5	31.0	19.5	11.0	26.5	21.0	24.0	15.0	26.5				
0.15	154	20.0	16.5	9.5	16.5	31.0	18.0	9.5	26.5	31.0	20.5	12.0	26.5	21.0	25.5	17.0	26.5				
0.18	184	20.0	17.0	10.5	16.5	31.0	18.5	10.0	26.5	31.0	21.5	13.0	26.5	21.0	27.0	18.5	26.5				
0.22	224	20.0	18.0	11.5	16.5	31.0	19.5	11.0	26.5	31.0	23.5	14.5	26.5	21.0	29.0	20.0	26.5				
0.27	274	31.0	17.5	9.0	26.5	31.0	20.5	12.0	26.5	31.0	24.5	16.0	26.5								
0.33	334	31.0	18.5	10.0	26.5	31.0	21.5	13.5	26.5	31.0	26.5	17.5	26.5								
0.39	394	31.0	19.0	11.0	26.5	31.0	23.0	14.5	26.5	31.0	28.0	19.0	26.5								
0.47	474	31.0	20.0	12.0	26.5	31.0	24.5	15.5	26.5												
0.56	564	31.0	21.0	12.5	26.5	31.0	26.0	17.0	26.5												
0.68	684	31.0	22.0	13.5	26.5	31.0	27.5	18.5	26.5												
0.82	824	31.0	23.5	15.0	26.5																
1.0	105	31.0	26.0	16.5	26.5																

CMPP

METALLIZED POLYPROPYLENE FILM CAPACITOR X2-CLASS

FEATURES

- Dielectric : Metallized polypropylene film
- Winding : non-inductive type.
- Leads : Tin plated wire
- Protection : Flame retardant Plastic Case (UL 94V-0)
Flame retardant Epoxy Resin (UL 94V-0)
- Excellent active and passive flame resistant properties
- Marking : Manufacturer's logo, series dielectric code,
Capacitance, Tolerance, AC Voltage.
Safety Certificates, Safety Clsss(X2)
- Recommended Application : X2-Class Capacitor
- Materials conform to RoHS (Pb-free)

ELECTRICAL CHARACTERISTICS

- Operating temperature : $-40 \sim +105^{\circ}\text{C}$
- Rated voltage : 275Vac(VDE, EK) / 250Vac(UL, CSA)
- Rated Capacitance range : $0.01\mu\text{F} \sim 2.2\mu\text{F}$
- Capacitance tolerance : (measured at 1 KHz $\pm 200\text{Hz}$) $\pm 10\%$ (K)
- Dissipation Factor (DF) : (measured at 1 KHz $\pm 200\text{Hz}$)
 $\leq 0.1\%$ (at $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
- Insulation resistance : Capacitors are subjected to D.C
 $C > 0.33\mu\text{F} \rightarrow 10,000\Omega \cdot \text{F} \uparrow$
 $C \leq 0.33\mu\text{F} \rightarrow 30,000\Omega \uparrow$
- Withstanding voltage : Between terminals
Apply 1070Vdc of the rated voltage for a minute,
or do 2200Vdc of that for 5sec.

Explanation of part Number

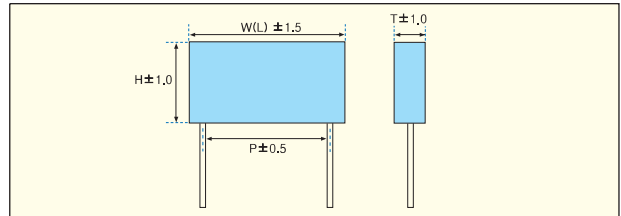
CMPP	AC275V	104	K
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 10\%$ (K)

Safety Certificates and Applicable Standard

Safety Certificate	State	Applicable Standard
CB Report	EU (Europe)	IEC60384-14
VDE	EU (Europe)	IEC60384-14
EK	Korea	K60384-14 (IEC60384-14)
UL	US	UL 1283 UL 1414
CSA	Canada	CAN/CSA-C22/2
CQC	China	GB/T14472-1998



PART CODE, DIMENSIONS



CAPACITANCE (μF)	CODE	AC275V / AC250V				
		W(L)	H	T	P	d(ϕ)
0.010	103	10.0	12.0	8.0	7.5	0.6
0.010	103	13.0	11.0	5.0	10.0	0.6
0.012	123	13.0	11.0	5.0	10.0	0.6
0.015	153	10.0	12.0	8.0	7.5	0.6
0.015	153	13.0	11.0	5.0	10.0	0.6
0.018	183	10.0	12.0	8.0	7.5	0.6
0.018	183	13.0	11.0	5.0	10.0	0.6
0.022	223	10.0	12.0	8.0	7.5	0.6
0.022	223	13.0	12.0	6.0	10.0	0.6
0.027	273	18.0	11.0	5.0	15.0	0.6
0.033	333	10.0	12.0	8.0	7.5	0.6
0.033	333	18.0	11.0	5.0	15.0	0.8
0.039	393	10.0	12.0	8.0	7.5	0.6
0.039	393	18.0	11.0	5.0	15.0	0.8
0.047	473	13.0	13.0	7.0	10.0	0.6
0.047	473	18.0	11.0	5.0	15.0	0.8
0.056	563	18.0	11.0	5.0	15.0	0.8
0.068	683	13.0	13.0	7.0	10.0	0.6
0.068	683	18.0	12.0	6.0	15.0	0.6
0.082	823	13.0	13.0	7.0	10.0	0.6
0.082	823	18.0	12.0	6.0	15.0	0.6
0.100	104	13.0	13.0	7.0	10.0	0.6
0.100	104	18.0	12.0	6.0	15.0	0.8
0.120	124	13.0	13.0	7.0	10.0	0.6
0.120	124	18.0	13.5	7.5	15.0	0.8
0.150	154	13.0	14.0	8.0	10.0	0.6
0.150	154	18.0	12.0	6.0	15.0	0.8
0.150	154	18.0	13.5	7.5	15.0	0.8
0.180	184	18.0	12.0	6.0	15.0	0.8
0.180	184	18.0	14.5	8.5	15.0	0.8
0.220	224	12.5	16.0	6.5	10.0	0.6
0.220	224	18.0	13.0	7.0	15.0	0.8
0.220	224	18.0	14.5	8.5	15.0	0.8
0.220	224	18.0	17.5	9.5	15.0	0.8
0.220	224	26.0	15.0	6.0	22.5	0.8
0.220	224	26.5	16.0	7.0	22.5	0.8
0.270	274	18.0	14.5	7.5	15.0	0.8
0.270	274	26.5	17.0	8.5	22.5	0.8
0.330	334	18.0	14.5	8.5	15.0	0.8
0.330	334	18.0	15.5	8.0	15.0	0.8
0.330	334	26.0	17.0	7.0	22.5	0.8
0.330	334	26.5	17.0	8.5	22.5	0.8
0.340	334	12.5	19.0	8.0	10.0	0.8
0.390	394	18.0	17.0	8.0	15.0	0.8
0.390	394	26.5	19.0	10.0	22.5	0.8
0.470	474	12.5	20.0	10.0	10.0	0.8
0.470	474	18.0	16.0	10.0	15.0	0.8
0.470	474	18.0	18.0	9.0	15.0	0.8
0.470	474	26.0	17.0	8.5	22.5	0.8
0.470	474	26.5	19.0	10.0	22.5	0.8
0.470	474	32.0	20.0	11.0	27.5	0.8
0.560	564	18.0	19.0	10.0	15.0	0.8
0.560	564	26.0	16.5	7.5	22.5	0.8
0.560	564	32.0	20.0	11.0	27.5	0.8
0.680	684	18.0	18.5	11.0	15.0	0.8
0.680	684	26.0	17.0	8.0	22.5	0.8
0.680	684	26.0	19.0	10.0	22.5	0.8
0.680	684	32.0	20.0	11.0	27.5	0.8
0.820	824	26.0	18.0	9.0	22.5	0.8
0.820	824	32.0	22.0	13.0	27.5	0.8
1.000	105	18.0	21.0	10.5	15.0	0.8
1.000	105	26.0	19.0	10.0	22.5	0.8
1.000	105	26.0	20.0	11.0	22.5	0.8
1.000	105	32.0	22.0	13.0	27.5	0.8
1.200	125	31.0	22.0	13.0	27.5	0.8
1.200	125	32.0	24.0	15.0	27.5	0.8
1.500	155	26.0	22.0	12.0	22.5	0.8
1.500	155	31.0	25.0	15.0	27.5	0.8
1.500	155	32.0	24.0	15.0	27.5	0.8
1.500	155	32.0	27.0	17.5	27.5	0.8
1.800	185	32.0	27.0	17.5	27.5	0.8
2.000	205	31.0	30.0	18.0	27.5	0.8
2.200	225	26.0	25.0	15.0	22.5	0.8
2.200	225	31.0	30.0	18.0	27.5	0.8
2.200	225	32.0	33.0	18.0	27.5	0.8

SAFE SMALL Horizontal Resonance Circuit

FMPP

FUSE-TYPE METALLIZED POLYPROPYLENE FILM CAPACITOR

FEATURES

- Dielectric : Fuse-Type Metallized polypropylene film
- Winding : non-inductive type.
- Leads : Tin plated wire
- Protection : Coated flame retardant epoxy resin.
(UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code, Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-free)

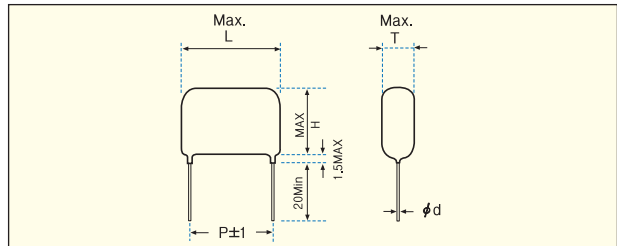
Explanation of part Number

FMPP	500V	224	J
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 5\%$ (J)

ELECTRICAL CHARACTERISTICS

- Same as MPP ITEM in the electrical characteristics

PART CODE, DIMENSIONS



CAPACITANCE (μF)	CODE	500V				
		W(L)	H	T	P	d(ϕ)
0.22	224	13.0	12.5	8.0	10.0	0.6
0.47	474	13.0	18.5	9.5	10.0	0.6
0.47	474	19.0	15.5	7.0	15.0	0.8
0.68	684	19.0	17.5	9.5	15.0	0.8
1.00	105	19.0	20.0	9.5	15.0	0.8
1.50	155	26.0	19.5	9.0	22.5	0.8
2.20	225	26.0	21.5	11.0	22.5	0.8

SAFE SMALL General Purpose

FMPE

FUSE-TYPE METALLIZED POLYESTER FILM CAPACITOR

FEATURES

- Dielectric : Fuse-Type Metallized polyester film
(Polyethylene terephthalate)
- Winding : non-inductive type.
- Leads : Tin plated wire
- Protection : Coated flame retardant epoxy resin.
(UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code, Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-free)

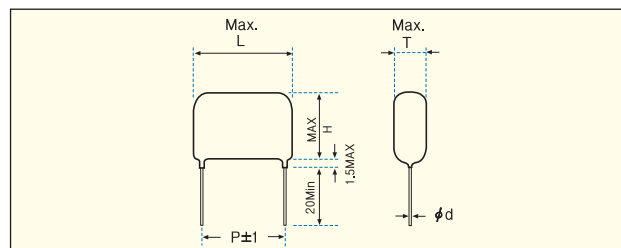
Explanation of part Number

FMPE	450V	224	K
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 10\%$ (K)

SPECIFICATION

- Same as MPE ITEM in the electrical characteristics

PART CODE, DIMENSIONS



CAPACITANCE (μF)	CODE	450V DC				
		W(L)	H	T	P	d(ϕ)
0.22	224	14.0	11.0	7.0	10.0	0.6
0.33	334	14.0	12.5	8.0	10.0	0.6
0.47	474	13.0	17.0	7.0	10.0	0.6
0.47	474	19.0	15.0	6.0	15.0	0.8
0.68	684	13.0	17.0	8.5	10.0	0.6
0.68	684	19.0	17.0	6.0	15.0	0.8
1.00	105	19.0	19.0	7.0	15.0	0.8
1.00	105	13.0	18.5	10.0	10.0	0.6
1.50	155	19.0	20.0	8.5	15.0	0.8
1.50	155	26.0	19.5	9.5	22.5	0.8
2.20	225	19.0	22.0	10.0	15.0	0.8
2.20	225	26.0	19.5	9.5	22.5	0.8

Box-Type Horizontal Resonance Circuit

BMPP

BOX-TYPE METALLIZED POLYPROPYLENE FILM CAPACITOR

FEATURES

- Dielectric : Metallized polypropylene film
- Winding : non-inductive type
- Leads : Tin plated wire
- Protection : Flame retardant Plastic Case (UL 94V-0)
Flame retardant Epoxy Resin (UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code,
Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-free)

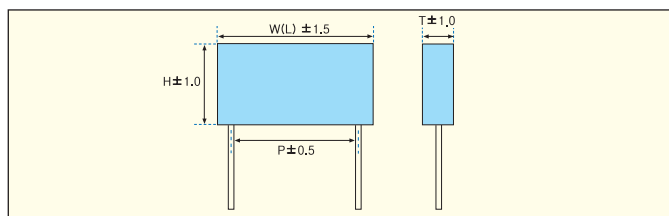
Explanation of part Number

BMPP	250V	154	J
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 5\%$ (J)

ELECTRICAL CHARACTERISTICS

- Same as MPP ITEM in the electrical characteristics

PART CODE, DIMENSIONS



CAPACITANCE (μ F)	CODE	250V DC					400V DC					630V DC				
		W(L)	H	T	P	d(Ø)	W(L)	H	T	P	d(Ø)	W(L)	H	T	P	d(Ø)
0.033	333											18.0	10.5	5.0	15.0	0.8
0.047	473											18.0	10.5	5.0	15.0	0.8
0.068	683						18.0	10.5	5.0	15.0	0.8	18.0	11.0	6.0	15.0	0.8
0.10	104						18.0	10.5	5.0	15.0	0.8	18.0	12.5	7.0	15.0	0.8
0.15	154	18.0	10.5	5.0	15.0	0.8	18.0	11.0	6.0	15.0	0.8	26.5	15.0	6.0	22.5	0.8
0.22	224	18.0	11.0	6.0	15.0	0.8	18.0	12.5	7.0	15.0	0.8	26.5	16.5	8.5	22.5	0.8
0.33	334	18.0	12.5	7.0	15.0	0.8	18.0	14.5	8.5	15.0	0.8	26.5	16.5	10.5	22.5	0.8
0.47	474	18.0	14.5	8.5	15.0	0.8	26.5	16.5	8.5	22.5	0.8	26.5	20.5	11.0	22.5	0.8
0.68	684	26.5	16.5	8.5	22.5	0.8	26.5	16.5	10.5	22.5	0.8	32.0	21.0	11.0	27.5	0.8
1.00	105	26.5	16.5	10.5	22.5	0.8	26.5	20.5	11.0	22.5	0.8	32.0	23.0	13.5	27.5	0.8
1.50	155	32.0	21.0	11.0	27.5	0.8	32.0	21.5	12.5	27.5	0.8	32.0	27.5	18.0	27.5	0.8
2.20	225	32.0	21.5	12.5	27.5	0.8	31.5	24.5	14.0	27.5	0.8					
3.30	335	32.0	24.5	15.0	27.5	0.8	31.5	30.0	19.0	27.5	0.8					
4.70	475	32.0	27.5	18.0	27.5	0.8										

Box-Type General Purpose

BMPE

BOX-TYPE METALLIZED POLYESTER FILM CAPACITOR

FEATURES

- Dielectric : Metallized polyester film
(Polyethylene terephthalate)
- Winding : non-inductive type
- Leads : Tin plated wire
- Protection : Flame retardant Plastic Case (UL 94V-0)
Flame retardant Epoxy Resin (UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code,
Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-free)

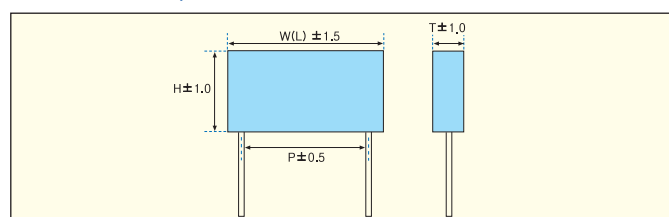
Explanation of part Number

BMPE	100V	105	K
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 10\%$ (K)

SPECIFICATION

- Same as MPE ITEM in the electrical characteristics

PART CODE, DIMENSIONS



CAPACITANCE (μ F)	CODE	1000V DC					250V DC					400V DC					630V DC				
		W(L)	H	T	P	d(Ø)	W(L)	H	T	P	d(Ø)	W(L)	H	T	P	d(Ø)	W(L)	H	T	P	d(Ø)
0.010	103																13.0	9.0	4.0	10.0	0.6
0.015	153																13.0	11.0	5.0	10.0	0.6
0.022	223																13.0	11.0	5.0	10.0	0.6
0.033	333																13.0	12.0	6.0	10.0	0.6
0.047	473																18.0	10.5	5.0	15.0	0.8
0.068	683																18.0	11.0	6.0	15.0	0.8
0.10	104											18.0	10.5	5.0	15.0	0.8	18.0	12.5	7.0	15.0	0.8
0.15	154											18.0	10.5	5.0	15.0	0.8	18.0	14.5	8.5	15.0	0.8
0.22	224											18.0	11.0	6.0	15.0	0.8	26.5	16.0	7.0	22.5	0.8
0.33	334											26.5	15.0	6.0	22.5	0.8	26.5	16.5	10.5	22.5	0.8
0.47	474						18.0	14.5	8.5	15.0	0.8	26.5	16.0	7.0	22.5	0.8	26.5	20.5	10.5	22.5	0.8
0.68	684						18.0	17.5	9.0	15.0	0.8	26.5	16.5	8.5	22.5	0.8	26.5	22.0	12.0	22.5	0.8
1.00	105	18.0	11.0	6.0	15.0	0.8	26.5	15.0	6.0	22.5	0.8	26.5	16.5	10.5	22.5	0.8	32.0	24.5	14.0	27.5	0.8
1.50	155	18.0	12.5	7.0	15.0	0.8	26.5	16.0	7.0	22.5	0.8	26.5	20.5	11.0	22.5	0.8	32.0	27.5	18.0	27.5	0.8
2.20	225	26.5	15.0	6.0	22.5	0.8	26.5	16.5	10.5	22.5	0.8	32.0	21.0	11.0	27.5	0.8	32.0	31.0	21.0	27.5	0.8
3.30	335	26.5	15.0	6.0	22.5	0.8	26.5	20.5	11.0	22.5	0.8	32.0	24.5	14.0	27.5	0.8					
4.70	475	26.5	16.0	7.0	22.5	0.8	32.0	21.0	11.0	27.5	0.8	32.0	24.5	14.0	27.5	0.8					
10.0	106	26.5	16.5	10.5	22.5	0.8	32.0	21.5	12.5	27.5	0.8										

SAFE SMALL LOWEST NOISE Horizontal Resonance Circuit

FMPP(R)

FUSE-TYPE METALLIZED POLYPROPYLENE FILM CAPACITOR-ROUND TYPE

FEATURES

- Dielectric : Fuse-Type Metallized polypropylene film
- Winding : non-inductive type.
- Leads : Tin plated wire
- Protection : Coated flame retardant epoxy resin.
(UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code, Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-Free)

Explanation of part Number

FMPP(R)	500V	224	J
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 5\%$ (J)

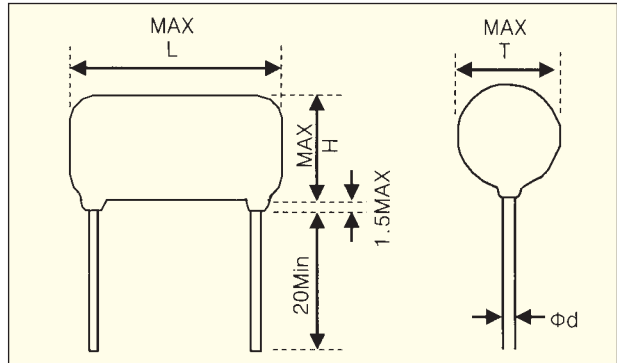
ELECTRICAL CHARACTERISTICS

- Same as MPP ITEM in the electrical characteristics
- Lowest Noise level Capacitor (Capacitor's own noise)

MPP ITEM is available in Round-Type [MPP-ROUND]

- Obtain Korean patent for 'Round-Type, low noise level Capacitor.'
Patent No. 10-0949123

PART CODE, DIMENSIONS



CAPACITANCE (μF)	CODE	500V				
		W(L)	H	T	P	d(Ø)
0.47	474	19.5	11.0	10.5	15.0	0.8
0.68	384	19.5	12.5	12.0	15.0	0.8
1.00	105	19.5	14.5	14.0	15.0	0.8
1.50	155	19.5	17.0	16.5	15.0	0.8
2.20	225	28.5	18.0	17.5	22.5	0.8

SAFE SMALL LOWER NOISE General Purpose

FMPE(R)

FUSE-TYPE METALLIZED POLYESTER FILM CAPACITOR-SEMI-ROUND TYPE

FEATURES

- Dielectric : Fuse-Type Metallized polyester film
- Winding : non-inductive type.
- Leads : Tin plated wire
- Protection : Coated flame retardant epoxy resin.
(UL 94V-0)
- Marking : Manufacturer's Logo, Series dielectric Code, Capacitance, Tolerance, D.C.Voltage.
- Materials conform to RoHS (Pb-Free)

Explanation of part Number

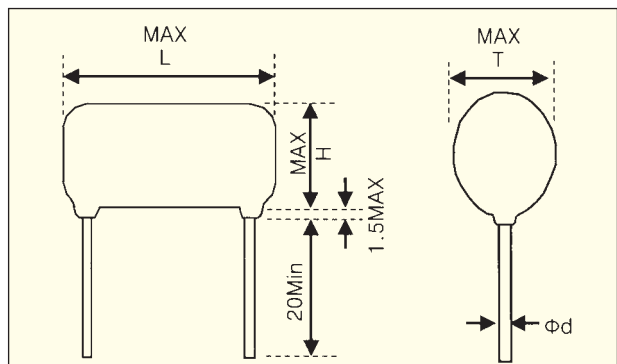
FMPE(R)	450V	474	K
Product Code	Rated Voltage	Nominal Capacitance	Tolerance $\pm 10\%$ (K)

ELECTRICAL CHARACTERISTICS

- Same as MPE ITEM in the electrical characteristics
- Lower Noise level Capacitor (Capacitor's own noise)

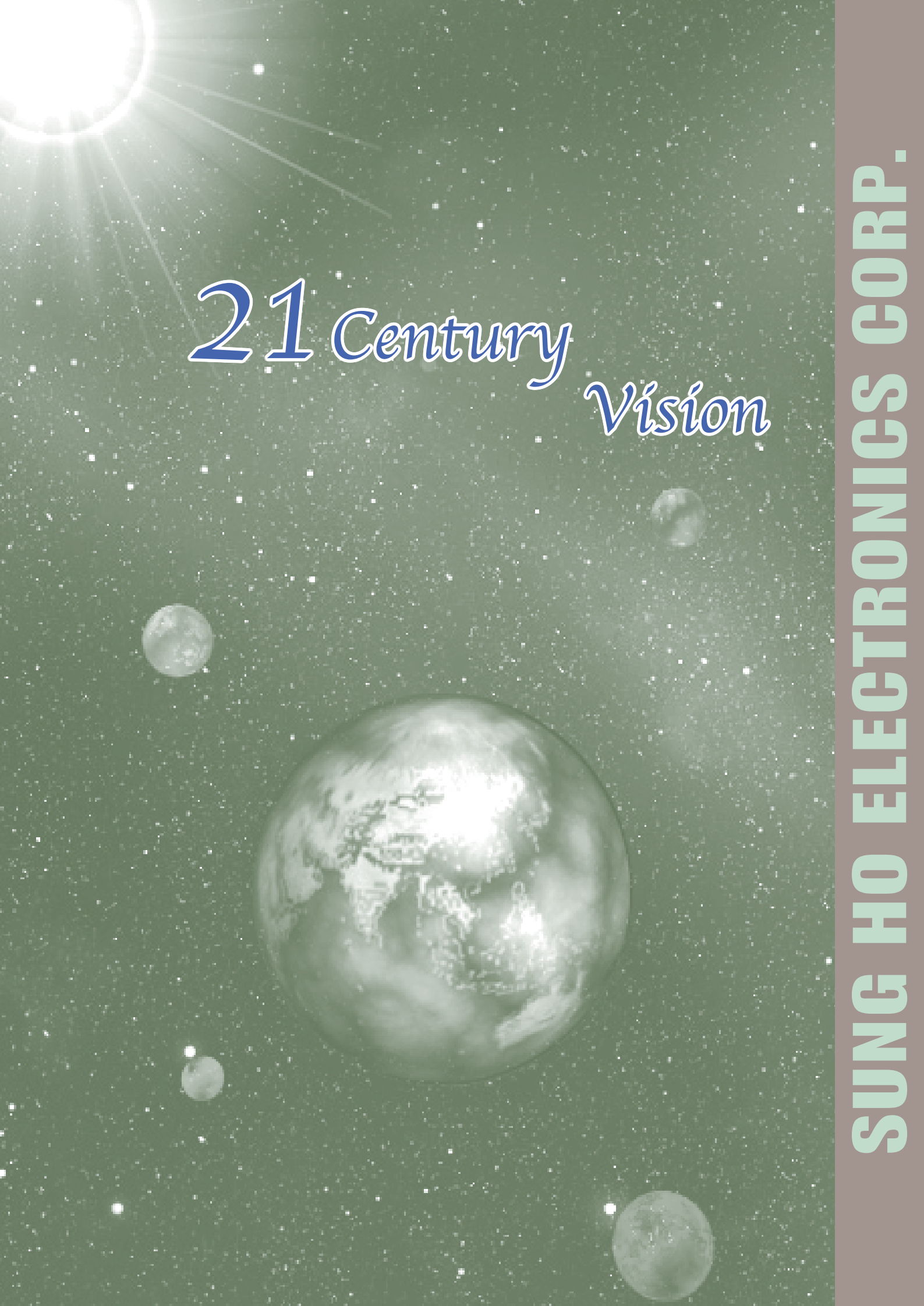
MPE ITEM is available in SEMI-Round Type [MPE-SEMI-ROUND]

PART CODE, DIMENSIONS



CAPACITANCE (μF)	CODE	450V				
		W(L)	H	T	P	d(Ø)
0.47	474	19.0	10.5	7.5	15.0	0.8
0.68	384	19.0	12.0	8.5	15.0	0.8
1.00	105	19.0	13.5	10.0	15.0	0.8
1.50	155	19.0	15.0	12.0	15.0	0.8
2.20	225	19.0	18.0	14.5	15.0	0.8
2.20	225	26.0	14.0	10.5	22.5	0.8

M E M O

The background is a deep green space filled with numerous small white stars. A large, bright sun with visible rays is in the top left corner. In the center, a large, detailed Earth shows continents and clouds. Several smaller, cratered moons are scattered throughout the scene.

21 Century Vision

SUNG HO ELECTRONICS CORP.



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