

## Overview Capacitors

### Aluminum Electrolyte Capacitors



Series	Features	Radial leaded type		
		Voltage Range (VDC)	Capacitance Range (μF)	Temperature Endurance (Hours)
SHF	High ripple, long life, low ESR	6.3 ... 400	2.2 ... 15,000	105°C 5,000 ... 10,000
SHL	High ripple, long life, low ESR, wide temp. range	6.3 ... 450	2.2 ... 10,000	105°C 8,000
SHT	High ripple, long life, ultra-low ESR	6.3 ... 100	6.8 ... 6,800	105°C 6,000 ... 8,000
SHG	High ripple, long life, low ESR, ultra-low temp. -55°C	10 ... 500	1.0 ... 4,700	105°C 5,000 ... 10,000
SHX	High ripple, long life, low ESR, high temp. 125°C	10 ... 450	2.2 ... 6,800	125°C 5,000
SX30	High ripple, long life, high temp. 130°C	16 ... 400	3.3 ... 4,700	130°C 5,000
MHT	Super small size, high ripple	400 ... 400	4.7 ... 150	105°C 4,000
SHG	Long life, high ripple, low ESR, ultra-low temp -55°C	10 ... 500	1.0 ... 4.700	105°C 5,000 ... 10,000

### TiO2 metallic electrolytic capacitors



Series	Features	Replace solid capacitors of some application		
		Voltage Range (VDC)	Capacitance Range (μF)	Temperature Endurance (Hours)
SHW	High ripple, long life, ultra-low ESR	6.3 ... 100	100 ... 5,600	105°C 10,000
SYJ	High ripple, large capacitance	400 ... 450	2.2 ... 100	105°C 5,000

### TiO2 solid electrolytic capacitors



Series	Features	Better performance than polymer solid electronic capacitor		
		Voltage Range (VDC)	Capacitance Range (μF)	Temperature Endurance (Hours)
PB	High ripple, long life, ultra-low ESR	6.3 ... 16	100 ... 5,600	105°C 10,000
PA	High ripple, large capacitance	25	2.2 ... 100	105°C 5,000
PV	Super mini-size, ultra-low ESR, high reliability	35	47 ... 100	105°C 5,000

### Snap-in aluminium electrolytic capacitors



Series	Features	Snap-in aluminium electrolytic capacitors		
		Voltage Range (VDC)	Capacitance Range (μF)	Temperature Endurance (Hours)
SHA	Standard	6.3 ... 450	39 ... 82,000	105°C 3,000
ST-50	Long life, high ripple	10 ... 450	82 ... 82,000	105°C 5,000
SHW	Charge-discharge, long life, high ripple	6.3 ... 100	100 ... 5,600	105°C 5,000

### Screw terminal aluminium electrolytic capacitors



Series	Features	Screw terminal aluminium electrolytic capacitors		
		Voltage Range (VDC)	Capacitance Range (μF)	Temperature Endurance (Hours)
ST-03	High ripple, long life	160 ... 450	100 ... 27,000	105°C 3,000

## Film capacitors

### Metallized polypropylene film capacitors



Series	Features	Voltage Range (VDC)	Capacitance Range (μF)	Climate Category
MPP	Standard, low, buzz, miniaturized	100 ... 1,250	0.001 ... 3.3	40/105/21
MPB-A	For capacitive divider	400, 500, 630	0.1 ... 4.7	40/105/56
MMKP82	Low D.F., high current	400 ... 2,000	0.001 ... 1.0	40/105/56
X2	Across-the-line	275, 305, 310	0.001 ... 4.7	40/105/56
X2-A	For capacitive divider	275, 305, 310	0.1 ... 4.7	40/105/56
X2-THB	Class 2, temperature 85°C, humidity 85%	275, 305, 310	0.001 ... 4.7	40/105/56

## Film capacitors

### Metallized polyester film capacitors



Series	Features	Voltage Range (VDC)	Capacitance Range (μF)	Climate Category
MPE	Standard, low, buzz, miniaturized	100 ... 630	0.01 ... 10	55/85/21

## Ceramic capacitors



Series	Features	Voltage Range (VAC)	Capacitance Range (pF)	Climate Category
JK	Safety standard certified Y2	125, 250, 300	100 ... 10,000	25/125/21
JT	Safety standard certified Y1	250, 300, 400	10 ... 4,700	25/125/21

## Film capacitors

### Pun capacitor / Metallized polypropylene film capacitors



Series	Features	Voltage Range (VAC)	Capacitance Range (μF)	Climate Category
CBB60	AC motor run capacitor	110 ... 630	0.1 ... 120	40/85/21