

# Capacitors for Electrical Apparatus



MOTOR RUN/MOTOR START

MERITEK

MERITEK motor run and motor start capacitor series are specifically designed for use with AC motors and other electrical apparatuses. Employing the latest technology, these capacitors are constructed using metallized polypropylene or metallized polyester film, both of which exhibit excellent electrical characteristics. These capacitors offer the advantages of being compact and lightweight, while exhibiting low loss (dissipation factor), high insulation resistance, and a high safety standard. Applications include starting and power factor correction functions in such devices as air conditioners, refrigeration units, washing machines, ventilation fans, electric fans, motors, fluorescent lamps, and mercury bulbs, among others.

## SPECIFICATION

Standard	CNS 4327, JIS 4908, IEC 252		
Capacitance tolerance	(K) $\pm 10\%$ , (U) $+10\%/-5\%$ , (J) $\pm 5\%$		
Frequency	50 / 60 Hz		
Insulation resistance	Above 2000 M $\Omega$		
Voltage Withstanding capability	Between terminal	W.V. x 1.5	One minute
	Terminal to case	W.V. x 2 + 1000 (at least 2000)	One minute
Dissipation factor	MF Type	Below 0.3%	
	MPP Type	Below 0.1%	
Temperature range	MF Type	-25°C to +55°C	
	MPP Type	-25°C to +70°C	
	MPP Type	-40°C to +85°C (also available)	
Leakage test	Given 15 minutes at continuous temperature of 75 $\pm 3^\circ\text{C}$ (90 $\pm 3^\circ\text{C}$ ), these parts should not leak any oil.		
Continuous usage life test	@ W.V. x 120%, 1000 $\pm 12$ hours		
On-off life test	@W.V. x 140%	On 2 sec. Test cycle 100,000 $\pm 1,000$ times	Off 2 sec.

## PART NUMBERING SYSTEMS




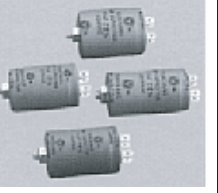






**SGA 15UF K 440A 8 GE**

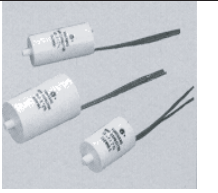



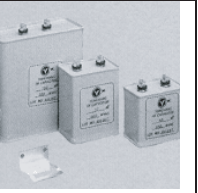




<b>Meritek Series</b>			
Capacitance			
Tolerance			
CODE	J	K	U
	$\pm 5\%$	$\pm 10\%$	$+10\%/-5\%$
Rated Voltage			
CODE	A	D	
	VAC	VDC	
Temperature Range			
CODE	5	7	8
	-25 to +55°C	-25 to +70°C	-40 to +85°C
Customer code (if any)			

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METALLIZED FILM CAPACITOR					
					
MODEL	YG	YF	YF-P	YF-B	YC
Capacitance Range	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 660VAC	150 to 500VAC	150 to 500VAC
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus
Certification					





METALLIZED FILM CAPACITOR					
					
MODEL	YC-B	RC	RC-B	RF-P	SF-P
Capacitance Range	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F	1 to 50 $\mu$ F
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 660VAC	150 to 500VAC
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus
Certification					

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METALLIZED FILM CAPACITOR					
MODEL	SGA	SGB	SGC	SGD	SGE
Capacitance Range	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 500VAC
Temperature Range	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus
Certification					

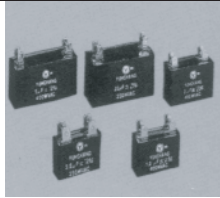
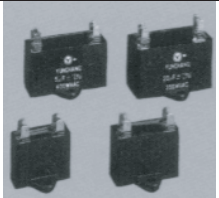
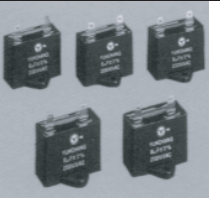
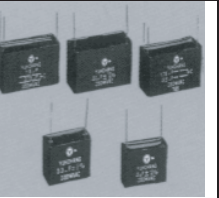
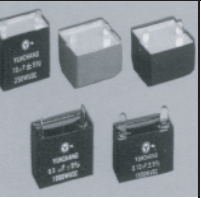





METALLIZED FILM CAPACITOR					
MODEL	SCA	SCB	SCC	SCD	SCE
Capacitance Range	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 500VAC
Temperature Range	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus
Certification					

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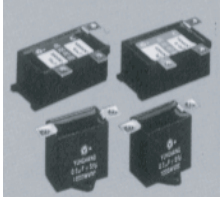
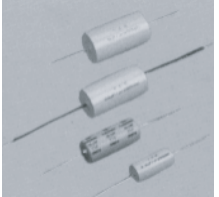
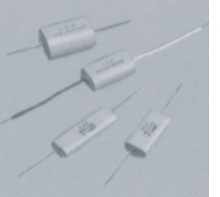
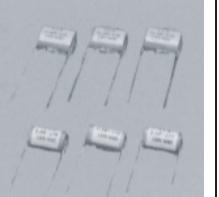



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## METALLIZED FILM CAPACITOR

					
MODEL	SFA	SFE	SFE-1	SWA	SPA
Capacitance Range	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 660VAC	250 to 1000VAC
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus
Certification					

## METALLIZED FILM CAPACITOR

					
MODEL	SLE	YT	FT	DW-R	
Capacitance Range	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	1 to 30 $\mu$ F	
Capacitance Tolerance	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	$\pm$ 5%, $\pm$ 10%	
Working Voltage Range	150 to 500VAC	150 to 500VAC	150 to 500VAC	150 to 660VAC	
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	
Applications	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	AC electrical apparatus	
Certification					

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## VDE APPROVED PRODUCTS

Rated Voltage (VAC)	Capacitance ( $\mu$ F)	Length (mm)	Width (mm)	Height (mm)	Type
400	1.0	37	13	24	SGE
	1.5	37	15	26	
	2.0	37	17	29	
	2.5	37	20	29	
	3.0	50	19	29	
450	1.0	37	15	24	SGA, SGB, SGC, SWA, SCA, SCB, SCE, SFE
	1.5	37	17	29	
	2.0	37	19	29	
	2.5	37	19	29	
	3.0	50	20	30	