

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 Ω | | |
| 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 ± 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




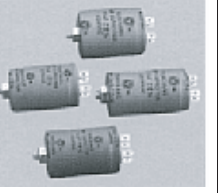






SGA 15UF K 440A 8 GE

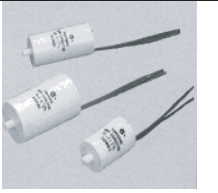



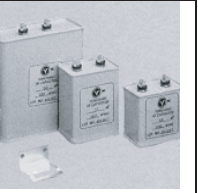




| | | | |
|------------------------|--------------|--------------|--------------|
| Meritek Series | | | |
| Capacitance | | | |
| Tolerance | | | |
| CODE | J | K | U |
| | $\pm 5\%$ | $\pm 10\%$ | $+10\%/-5\%$ |
| Rated Voltage | | | |
| CODE | A | D | |
| | VAC | VDC | |
| Temperature Range | | | |
| 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 μ F | 1 to 50 μ F | 1 to 50 μ F | 1 to 50 μ F | 1 to 50 μ 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 μ F | 1 to 50 μ F | 1 to 50 μ F | 1 to 50 μ F | 1 to 50 μ 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 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ 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 |  |  |  | |  |

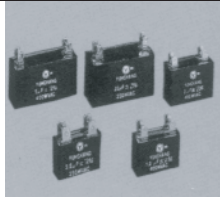
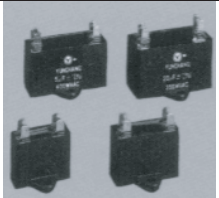
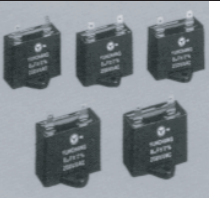
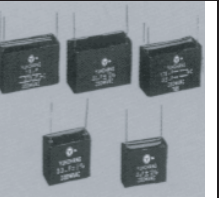
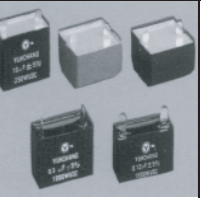





| METALLIZED FILM CAPACITOR | | | | | |
|---------------------------|---|---|---|--------------------------------------|---|
| MODEL | SCA | SCB | SCC | SCD | SCE |
| Capacitance Range | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F |
| Capacitance Tolerance | \pm 5%, \pm 10% | \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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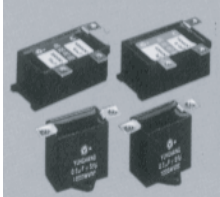
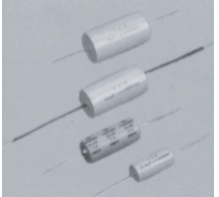
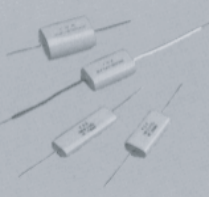
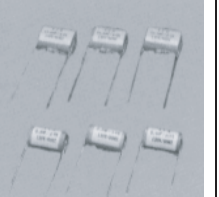



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METALLIZED FILM CAPACITOR

| |  |  |  |  |  |
|-----------------------|--|--|--|--|--|
| MODEL | SFA | SFE | SFE-1 | SWA | SPA |
| Capacitance Range | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ 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 μ F | 1 to 30 μ F | 1 to 30 μ F | 1 to 30 μ 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 (μ 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 | |