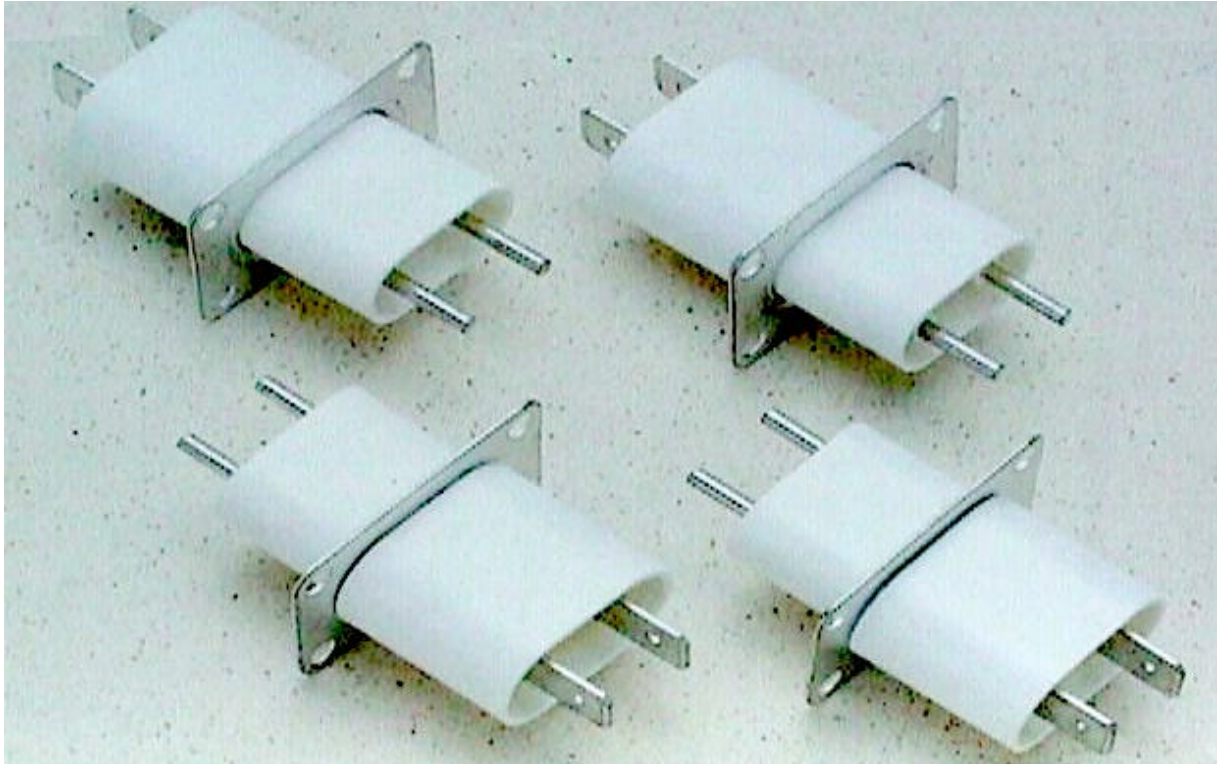


Feed-Through Ceramic Capacitors

■ High Voltage Type (HDFU5014A)

CERAMIC CAPACITOR FOR ELECTRONIC RANGE MAGNETRON FEEDER CIRCUIT



● FEATURES

- High reliability and small size.
- Excellent frequency characteristic.
- Low spurious and leakage for wide band frequency.

● MAXIMUM RATINGS (Ta=20°C)

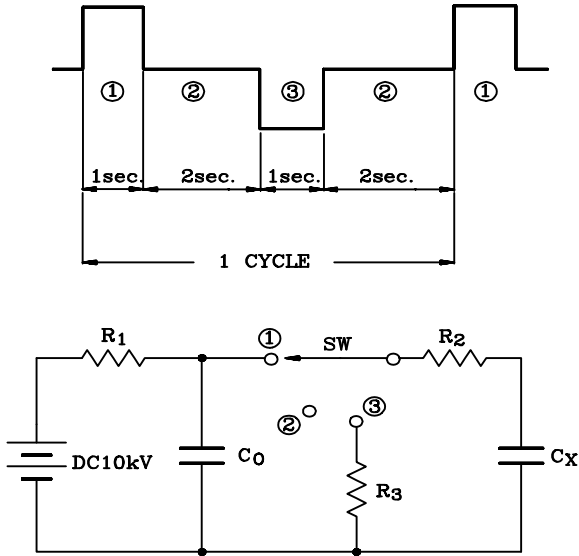
Characteristic		Rating	Unit
Rated Voltage		DC 10	kV
Operating Temperature Range		-30~+120	°C
Terminal Strength	Horizontal	15	kg

● ELECTRICAL CHARACTERISTICS (Ta=20°C)

Characteristic	Test Condition	Min.	Typ.	Max.	Unit
Withstand Voltage	AC 10kV 1Minute.	10	-	-	kV
Capacitance	1kHz 1~5V _{rms}	-	500×2	-	pF
Capacitance Tolerance	1kHz 1~5V _{rms}	-30	-	+30	%
Dissipation Factor	1kHz 1~5V _{rms}	-	-	2.5	%
Insulation Resistance	DC 1000V, 1MΩ	10,000	-	-	MΩ
Temperature Characteristic of Capacitance	Y5U (EIA Standard), -25°C ~ +85°C	-56	-	+22	%

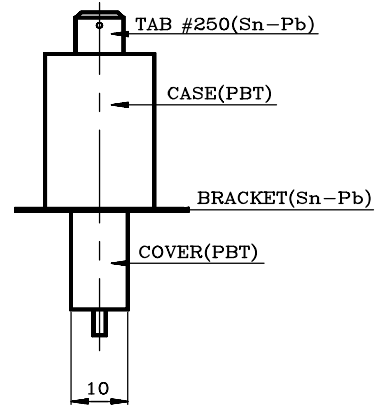
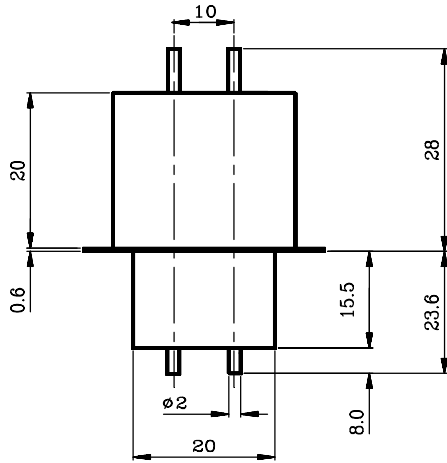
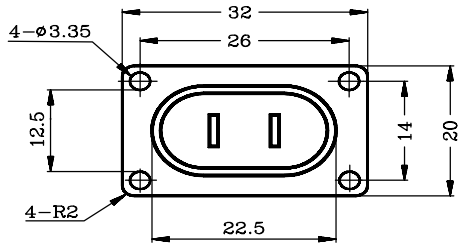
Feed-Through Ceramic Capacitors

● ELECTRICAL PERFORMANCE (SPECIAL TEST)

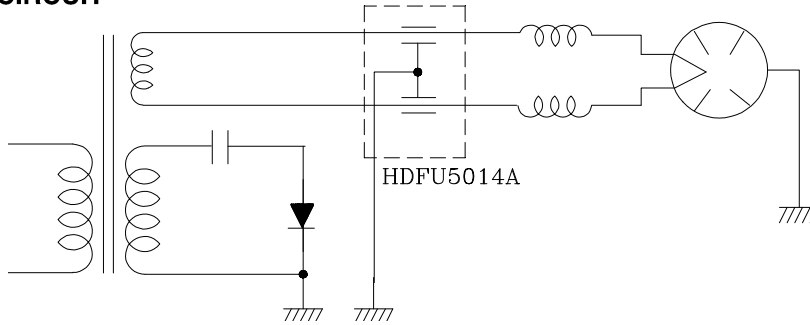
Test Item	Test Method and Test Condition	Specification
Life Test	Capacitor shall be applied with DC 10kV for 500 hours at $100 \pm 2^\circ\text{C}$	Capacitor Change : $\pm 30\%$ max. Dissipation Factor : 3% max. Insulation Resistance : 10,000 M Ω min.
Charge and Discharge Test	<p>Capacitor shall be subjected 5,000 cycle of charge and discharge with DC 10kV.</p>  <p>Cx : Capacitor under test Co : Capacitor for charge $C_o = 2 \times C_x$ R₁ : Resistor to charge Co within 4 seconds R₂ : Resistor limiting surge current. 500Ω R₃ : 1MΩ</p>	Capacitor Change : $\pm 20\%$ max. Dissipation Factor : 3% max. Insulation Resistance : 10,000 M Ω min.
Humidity Test	Capacitor shall be exposed at $40 \pm 2^\circ\text{C}$, 90~95% RH for 500 hours. Then removed and wiped slightly, then measured at room ambient 1~2 hours after removal.	Capacitor Change : $\pm 20\%$ max. Dissipation Factor : 3% max. Insulation Resistance : 10,000 M Ω min.
Heat Shock Test	Capacitor shall be subjected 10 cycles of cool and heat.	Insulation Resistance : 10,000 M Ω min. Must bear AC 10kVrms for 5 seconds (at 60Hz) With no evidence of cracks and chips.

Feed-Through Ceramic Capacitors

● CONSTRUCTION AND DIMENSION



● APPLICATION CIRCUIT



● CHANGING RATIO OF CAPACITANCE : ΔCs

$$L_I - f$$

