CERAMIC DISC CAPACITORS

CLASS III SEMICONDUCTOR TYPE

FEATURES

* Linear temperature characteristics of capacitance.
* Stable capacitance change over the specified temperature.
* Low loss at wide range of frequency.
* Cost saving by replacing film capacitors.
* Ultra large capacitance in small sizes.

SPECIFICATIONS

* Operating temperature range: −25°C ~ +85°C
* Rated working voltage: 12V/16V/25V/50V/63V
* Test voltage: 2.5 times of the rated voltage
* Dissipation factor (tan δ): at 1 KHz, 0.1 Vrms. 25°C
  B, E, F: 12V/16V 7.5% max. 25V/50V 5% Max.
* Insulation resistance: (at 25°C)
  12V/16V. 100MΩμF or 10MΩμF whichever is less
  25V/50V. 1000MΩμF or 20MΩμF whichever is less

* Temperature characteristics:

Item / Char.	Max. Capacitance Change from 25°C	Applicable Temperature Range	Applicable Standards	
			IEC Pub. 384.9	EIA RS-198
B	± 10%	−25° to +85°C	2B4	Y5P
E	+20, −55%	+10° to +85°C	2E5	Z5U
F	+30, −80%	−25° to +85°C	2F4	Y5V

* Load life test:

After application of 200% of the rated voltage for 1000 hours at 85°C, capacitors shall meet the following. Measurement shall be made after 24 hours exposure at room temperature.

Temp. Char. / Item	B	E	F
Capacitance Change	+10%	±20%	±30%
Dissipation Factor	5%		7.5%
Insulation Resistance	500MΩ or 50MΩμF whichever is less		500MΩ or 50MΩμF whichever is less

* Humidity test:

The capacitors shall be exposed in the ambient temperature of 40°C, and at 95% R.H. for 500 hours.
The capacitors shall meet the following after 24 hours exposure at room temperature.

Temp. Char. / Item	B	E	F
Capacitance Change	±10%	±20%	±30%
Dissipation Factor	7.5%		7.5%
Insulation Resistance	500MΩ or 50MΩμF whichever is less		500MΩ or 50MΩμF whichever is less