ภาคผนวก ข

แสดงข้อมูลตัวเก็บประจุที่ใช้ในการทดลองเบอร์ DHS43Z5V242Z20K

-ทนแรงดันสูงสุดได้ 20 กิโลโวลท์กระแสตรง

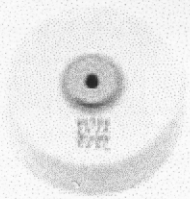
-มีค่าความจุไฟฟ้า 2.4 นาโนฟารัด

-มีเส้นผ่านศูนย์กลาง43 มิลลิเมตร ,สูง 24 มิลลิเมตรและยาว 26 มิลลิเมตร

EADED CAPACITORS, NETWORKS & HV CAPACITORS
IIGH VOLTAGE CAPACITORS
0kV to 40kVDC E.I.A. CLASS III

muRata
Innovator in Electronics

DHS Series



FEATURES
- Epoxy resin encapsulated
- Small size
- Highly reliable internal construction
- Wide selection of values
- Up to 40kVDC working voltage

APPLICATIONS
- Electrostatic copying machines
- Electron microscopes, synchroscopes
- CRT power supplies
- Lightning arrestor voltage distribution systems
- HVDC power supplies
- Lasers (CO_2, Excimer, etc.)

ART NUMBERING SYSTEM

TYPE	TEMP. CHAR.	CAPACITANCE	TOLERANCE	VOLTAGE
DHS20	Z5V	681	Z	10K

CAPACITOR TYPE AND SIZE

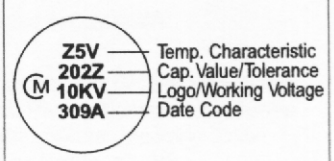
TEMPERATURE CHARACTERISTIC
Temperature Range Z5 = + 10°C to +85°C
MAX. CAP. CHANGE OVER TEMP. RANGE
V = +22%, –82%

CAPACITANCE VALUE
Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow.

CAPACITANCE TOLERANCE
Z = +80%, –20%

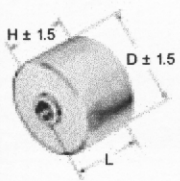
VOLTAGE
Identified by a two-digit number in kVDC.

TYPICAL MARKING



PREFERRED VALUES–10kV, 15kV, 20kV, 30kV & 40kVDC

DHS Series	Part Number	Capacitance (pF)	Rated Voltage kVDC	Test Voltage kVDC	Dimensions: mm		
					D max.	L	H
	DHS20Z5V681Z10K	680	10	15	20	19	17
	DHS24Z5V122Z10K	1200			24		
	DHS30Z5V202Z10K	2000			30		
	DHS38Z5V322Z10K	3200			38		
	DHS43Z5V472Z10K	4700			43		
	DHS52Z5V652Z10K	6500			52		
	DHS57Z5V832Z10K	8300			57		
	DHS60Z5V932Z10K	9300			60		
	DHS20Z5V471Z15K	470	15	23	20	23	21
	DHS24Z5V801Z15K	800			24		
	DHS30Z5V132Z15K	1300			30		
	DHS38Z5V222Z15K	2200			38		
	DHS43Z5V322Z15K	3200			43		
	DHS52Z5V462Z15K	4600			52		
	DHS57Z5V582Z15K	5800			57		
	DHS60Z5V652Z15K	6500			60		
	DHS20Z5V351Z20K	350	20	30	20	26	24
	DHS24Z5V601Z20K	600			24		
	DHS30Z5V102Z20K	1000			30		
	DHS38Z5V162Z20K	1600			38		
	DHS43Z5V242Z20K	2400			43		
	DHS52Z5V332Z20K	3300			52		
	DHS57Z5V432Z20K	4300			57		
	DHS60Z5V482Z20K	4800			60		
	DHS20Z5V261Z30K	260	30	45	20	34	32
	DHS24Z5V461Z30K	460			24		
	DHS30Z5V781Z30K	780			30		
	DHS38Z5V122Z30K	1200			38		
	DHS43Z5V182Z30K	1800			43		
	DHS52Z5V 252Z30K	2500			52		
	DHS57Z5V 332Z30K	3300			57		
	DHS60Z5V 362Z30K	3600			60		
	DHS20Z5V181Z40K	180	40	60	20	41	39
	DHS24Z5V341Z40K	340			24		
	DHS30Z5V571Z40K	570			30		
	DHS38Z5V921Z40K	920			38		
	DHS43Z5V132Z40K	1300			43		
	DHS52Z5V192Z40K	1900			52		
	DHS57Z5V242Z40K	2400			57		
	DHS60Z5V272Z40K	2700			60		



No. 8-32
NC-2B taped holes
Depth: 4mm

*Available as standard through authorized Murata Electronics Distributors.

LEADED CAPACITORS, NETWORKS & HV CAPACITORS
HIGH VOLTAGE CAPACITORS
10kV to 40kVDC

muRata
Innovator in Electronics

DHS Series

Temperature Range
Operating: –20°C to +85°C
Storage: –30°C to +125°C

Capacitance and Tolerance
Characteristic: Z5V
Temp. Range: –10°C to +85°C
Cap. Change: Within +22%, –82% of 25°C value (Within a given lot, ±10% of the mean value is typical)
Capacitance shall be measured at a frequency of 1kHz ± 0.1kHz at 25°C with not more than 5 ± 0.5Vrms, AC applied during measurement.

Dissipation Factor
The maximum dissipation factor for these capacitors shall be 1.5%.

Dissipation factor shall be measured at a frequency of 1kHz ± 0.1kHz at 25°C with not more than 5 ± 0.5Vrms, AC applied during measurements.

Dielectric Strength Test
These capacitors shall withstand the specified test voltage for 1 minute through a current-limiting resistor of 1,000 Ohms.

Insulation Resistance
The minimum value of insulation resistance shall not be less than 10,000M Ohms at 25°C.

Measurements shall be made after a 1 minute charge at 1,000VDC voltage through a current limiting resistor which shall be not greater than 10M Ohms.

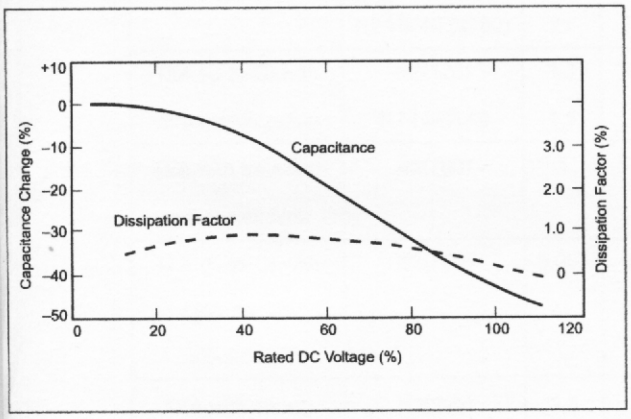
Humidity Resistance
After exposure for a period of 100 hours to an atmosphere of 95% relative humidity at a temperature of +40°C, capacitors shall have a minimum insulation resistance of 5,000M Ohms and a maximum dissipation factor of 5%. Twenty-four hours after removal from the test chamber, capacitors shall be measured.

Life Test
These capacitors shall withstand a test potential of 1.25 times the rated DC voltage for a period of 1,000 hours at an ambient temperature of +85°C.

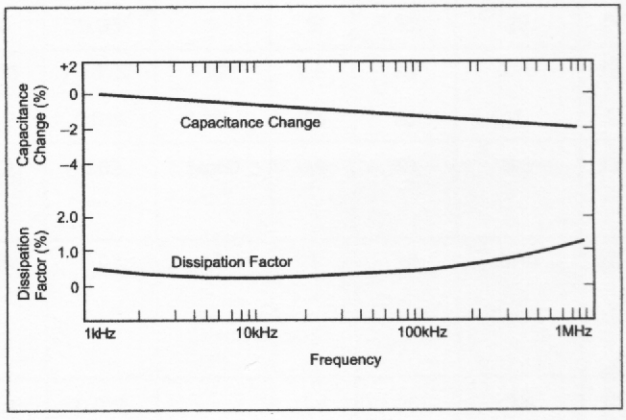
Encapsulation
Ceramic is enclosed in a molded epoxy resin.

Caution for Use
Some chemicals may be harmful to the DHS Series when used as an insulating medium. Please consult with Murata Electronics Product Engineering before exposing these capacitors to chemicals such as Freon, oil, etc.

TYPICAL VOLTAGE COEFFICIENT



TYPICAL FREQUENCY CHARACTERISTICS



TYPICAL TEMPERATURE CHARACTERISTICS