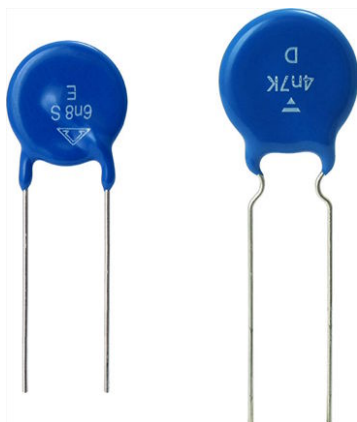


Ceramic Singlelayer DC Disc Capacitors, 500 V_{DC} General Purpose



FEATURES

- High capacitance in small sizes
- Low losses
- Wide range of different leadstyles
- Material categorization:

For definitions of compliance please see

www.vishay.com/doc?99912



RoHS
COMPLIANT

APPLICATIONS

- Bypassing
- Resonant circuits
- Coupling

DESIGN

The capacitors consist of ceramic disc both sides of which are silver plated. Connection leads are made of tinned copper having diameters of 0.6 mm.

The capacitors may be supplied with straight or kinked leads having a lead spacing of 5.0 mm or 7.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

10 pF to 10 nF

RATED VOLTAGE

500 V_{DC}

DIELECTRIC STRENGTH

1250 V_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 V_{DC}

≥ 5000 MΩ (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, - 20 %/+ 50 %

DISSIPATION FACTOR

C < 100 pF: Max. 3.0 % (1 MHz)

C ≥ 100 pF: Max. 3.0 % (1 kHz)

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Ceramic Class	2
Ceramic Dielectric	Y5T, Y5U
Voltage (V _{AC})	500
Min. Capacitance (pF)	10
Max. Capacitance (pF)	10 000
Mounting	Radial

MARKING

Marking indicates, capacitance, tolerance code, and rated voltage.

OPERATING TEMPERATURE RANGE

- 40 °C to + 85 °C

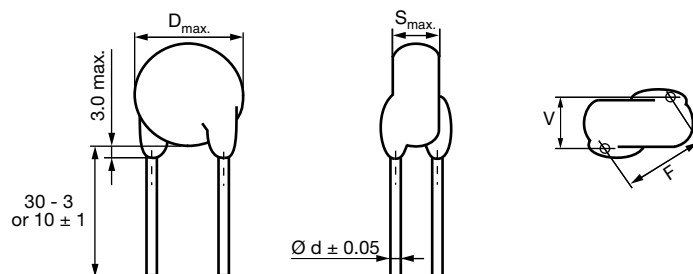
TEMPERATURE CHARACTERISTICS

Y5T, Y5U

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1):

40/085/21


DIMENSIONS in millimeters

ORDERING INFORMATION

CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE					
							MISSING DIGITS SEE ORDERING CODE BELOW					
Y5T (2D3)												
10	± 10, ± 20	6.0	3.0	5.0	0.6	1.6	HSZ100.AQ...KR					
12							HSZ120.AQ...KR					
15						1.5	HSZ150.AQ...KR					
18						1.3	HSZ180.AQ...KR					
22						1.1	HSZ220.AQ...KR					
27						1.3	HSZ270.AQ...KR					
33						1.4	HSZ330.AQ...KR					
39							HSZ390.AQ...KR					
47						1.2	HSZ470.AQ...KR					
56							HSZ560.AQ...KR					
68						7.0				1.4	HSZ680.AQ...KR	
82											HSZ820.AQ...KR	
100										1.1	HSZ101.AQ...KR	
120											HSZ121.AQ...KR	
150										1.6	HSZ151.AQ...KR	
180											HSZ181.AQ...KR	
220										1.3	HSZ221.AQ...KR	
270											HSZ271.AQ...KR	
330										1.2	HSZ331.AQ...KR	
390											HSZ391.AQ...KR	
470											HSZ471.AQ...KR	
560											HSZ561.AQ...KR	
680						8.0				1.1	HSZ681.AQ...KR	
820											HSZ821.AQ...KR	
1000										1.2	HSZ102.AQ...KR	
1200											HSZ122.AQ...KR	
1500						9.0				1.1	HSZ152.AQ...KR	
1800											HSZ182.AQ...KR	
2200		7.5		1.2		HSZ222.AQ...KR						
2700						HSZ272.AQ...KR						
3300						11.0					HSZ332.AQ...KR	
3900											HSZ392.AQ...KR	
4700				15.0		1.1	HSZ472.AQ...KR					



ORDERING INFORMATION

CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW				
Y5U (2E3)											
470	- 20/+ 50 ⁽²⁾	6.0	4.0	5.0	0.6	1.1	HSE471.AQ...KR				
680						1.2	HSE681.AQ...KR				
1000						1.4	HSE102.AQ...KR				
1500		7.0		7.5		1.2	HSE152.AQ...KR				
2200							HSE222.AQ...KR				
3300		11.0				1.1	HSE332.AQ...KR				
4700							HSE472.AQ...KR				
6800		13.0					HSE682.AQ...KR				
8200		15.0				1.4	HSE822.AQ...KR				
10000						1.2	HSE103.AQ...KR				

Notes

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request⁽²⁾ ± 20 % available on request

ORDERING CODE

.	7 th digit	Capacitance tolerance	± 10 % = K, ± 20 % = M, - 20 %/+ 50 % = S				
...	10 th to 12 th digit	Lead configuration	see "General Information"				
Example	HSE	103	S	AQ	CRY	K	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant

MARKING

HSE 470 pF to 4.7 nF	HSE 6.8 nF to 10 nF	HSZ 10 pF to 3.9 nF	HSZ 4.7 nF

RELATED DOCUMENTS

General Information	www.vishay.com/doc?22001
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