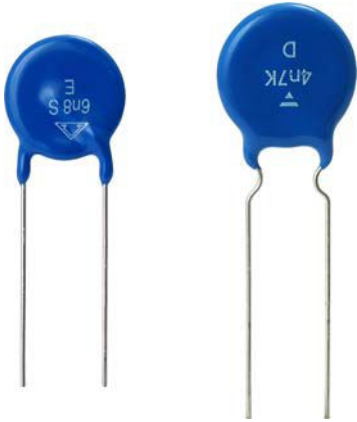


Ceramic Singlelayer DC Disc Capacitors, 500 V_{DC} General Purpose



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

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

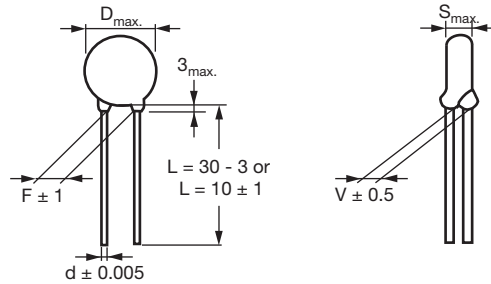
± 10 %, ± 20 %, - 20 %/+ 50 %

DISSIPATION FACTOR

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

C ≥ 100 pF: Max. 3.0 % (1 kHz)

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	4.0	5.0	0.6	1.5	HSZ100.AQ...KR
12							HSZ120.AQ...KR
15							HSZ150.AQ...KR
18						1.3	HSZ180.AQ...KR
22							HSZ220.AQ...KR
27						1.3	HSZ270.AQ...KR
33							1.4
39						HSZ390.AQ...KR	
47						1.2	HSZ470.AQ...KR
56							HSZ560.AQ...KR
68							HSZ680.AQ...KR
82						1.4	HSZ820.AQ...KR
100							HSZ101.AQ...KR
120						1.1	HSZ121.AQ...KR
150							HSZ151.AQ...KR
180						1.5	HSZ181.AQ...KR
220							HSZ221.AQ...KR
270						1.3	HSZ271.AQ...KR
330							HSZ331.AQ...KR
390						1.2	HSZ391.AQ...KR
470							HSZ471.AQ...KR
560							HSZ561.AQ...KR
680						1.2	HSZ681.AQ...KR
820							1.1
1000						1.2	
1200							HSZ122.AQ...KR
1500						1.1	HSZ152.AQ...KR
1800		1.2		HSZ182.AQ...KR			
2200				HSZ222.AQ...KR			
2700		1.4		HSZ272.AQ...KR			
3300				1.2		HSZ332.AQ...KR	
3900		HSZ392.AQ...KR					
4700		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	HSE821.AQ...KR
1000						1.4	HSE102.AQ...KR
1500		1.2		7.0		HSE152.AQ...KR	
2200						HSE222.AQ...KR	
3300		1.1		11.0		7.5	HSE332.AQ...KR
4700			HSE472.AQ...KR				
6800			HSE682.AQ...KR				
8200		1.4	15.0	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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