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Vishay Draloric

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



QUICK REFERENCE DATA					
DESCRIPTION	VALUE				
Ceramic Class	2				
Ceramic Dielectric	Y5T, Y5U				
Voltage (V _{DC})	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 lead styles
- BoHS
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Bypassing
- · Resonant circuits
- Coupling

DESIGN

The capacitors consist of a ceramic disc which is silver plated on both sides. 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}

 \geq 5000 M Ω (60 s)

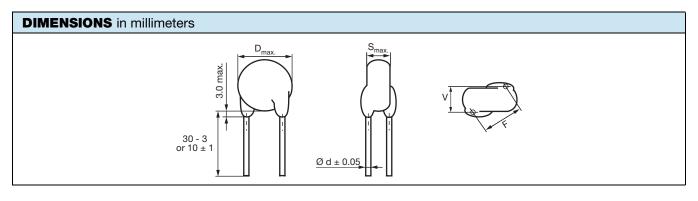
TOLERANCE ON CAPACITANCE

 \pm 10 %, \pm 20 %, - 20 % / + 50 %

DISSIPATION FACTOR

C < 100 pF: max. 3.0 % (1 MHz) $C \ge 100 \text{ pF: max. } 3.0 \% \text{ (1 kHz)}$





ORDERING I	NFORMATIO	N					
		DODY	DODY	LEAD	LEAD	WIDTH (1)	ORDERING CODE
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	SPACING ⁽¹⁾ F (mm) ± 1 mm	DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	V (mm) ± 0.5 mm	MISSING DIGITS SEE ORDERING CODE BELOW
Y5T (2D3)							
10						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							HSZ330#AQ###KR
39						1.4	HSZ390#AQ###KR
47						1.2	HSZ470#AQ###KR
56							HSZ560#AQ###KR
68		6.0			0.6	1.4	HSZ680#AQ###KR
82			3.0	5.0			HSZ820#AQ###KR
100							HSZ101#AQ###KR
120						1.1	HSZ121#AQ###KR
150							HSZ151#AQ###KR
180						1.6	HSZ181#AQ###KR
220	± 10, ± 20						HSZ221#AQ###KR
270						1.3	HSZ271#AQ###KR
330							HSZ331#AQ###KR
390						1.2	HSZ391#AQ###KR
470							HSZ471#AQ###KR
560		7.0					HSZ561#AQ###KR
680							HSZ681#AQ###KR
820						1.1	HSZ821#AQ###KR
1000							HSZ102#AQ###KR
1200		8.0				1.2	HSZ122#AQ###KR
1500						1.1	HSZ152#AQ###KR
1800						1.2	HSZ182#AQ###KR
2200		9.0		7.5			HSZ222#AQ###KR
2700		11.0					HSZ272#AQ###KR
3300							HSZ332#AQ###KR
3900		45.0					HSZ392#AQ###KR
4700	1	15.0				1.1	HSZ472#AQ###KR



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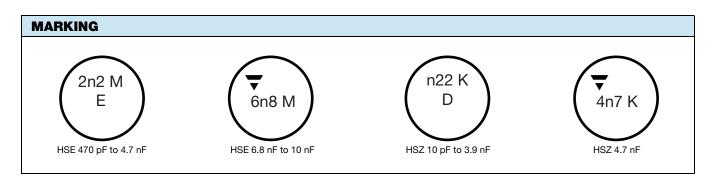
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ORDERING INFORMATION							
		BODY	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE
CAPACITANCE (pF)	TOLERANCE (%)	DIAMETER D _{max.} (mm)					MISSING DIGITS SEE ORDERING CODE BELOW
Y5U (2E3)							
470						1.1	HSE471#AQ###KR
680	- 20 / + 50 ⁽²⁾	6.0		5.0		1.2	HSE681#AQ###KR
1000						1.4	HSE102#AQ###KR
1500		7.0				1.2	HSE152#AQ###KR
2200		7.0	4.0		0.6		HSE222#AQ###KR
3300		11.0	4.0		0.6	1.1	HSE332#AQ###KR
4700							HSE472#AQ###KR
6800		13.0		7.5			HSE682#AQ###KR
8200		15.0				1.4	HSE822#AQ###KR
10 000						1.2	HSE103#AQ###KR

Notes

^{(2) ± 20 %} available on request

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



RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22001

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request



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