

# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Vishay/Sprague 562R10TSD10

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of Vishay/Sprague: Excellent Integrated System Limited** Datasheet of 562R10TSD10 - CAP CER 1000PF 1KV X5F RADIAL Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





## 561R and 562R Series

Vishay Cera-Mite

# Lower Voltage Ceramic DC Disc Capacitors 1000 $V_{DC}$ Temperature and Voltage Stabilized



QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Ceramic Class	1		2			
Ceramic Dielectric	C0G	U2J	X5F	X7R		
Voltage (V <sub>DC</sub> )	1000					

# Voltage (V<sub>DC</sub>) 10 27 56 10 000 Min. Capacitance (pF) 10 39 4700 10 000 Mounting Radial

#### INSULATION RESISTANCE

Min. 1000  $\Omega F$  or 50 000  $M \Omega$ 

#### **TOLERANCE ON CAPACITANCE**

± 10 %

#### **DISSIPATION FACTOR**

2.0 % max. at 1 kHz; 1 V

#### CATEGORY TEMPERATURE RANGE

(-55 to +125) °C C0G, U2J, X7R (-25 to +85) °C X5F

#### CLIMATIC CATEGORY ACC. TO EN 60068-1

55/125/21C0G, U2J, X7R25/085/21X5F

#### **OPERATING TEMPERATURE RANGE**

(-55 to +105) °C

# • Low losses



COMPLIANT

- High stability
- High capacitance in small size
- Complete range of capacitance values
- Radial leads
- Ceramic singlelayer capacitor
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### APPLICATIONS

- Bypassing
- Resonant circuit
- Coupling

#### DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper or tinned copper clad steel having diameters of 0.020" (0.51 mm) or 0.025" (0.64 mm).

The capacitors may be supplied with radial kinked or straight leads having lead spacing of 0.250" (6.35 mm) or 0.375" (9.5 mm).

The standard tolerance is  $\pm$  10 %.

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

#### **CAPACITANCE RANGE**

10 pF to 10 nF

#### RATED VOLTAGE

1000 V<sub>DC</sub>

#### DIELECTRIC STRENGTH BETWEEN LEADS

Component test: 2500 V<sub>DC</sub>, 2 s

#### **CERAMIC DIELECTRIC**

C0G, U2J (Class 1) X5F, X7R (Class 2)





#### Distributor of Vishay/Sprague: Excellent Integrated System Limited Datasheet of 562R10TSD10 - CAP CER 1000PF 1KV X5F RADIAL Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

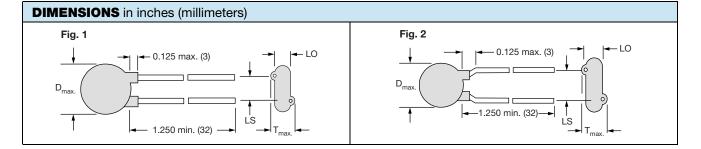
**VISHAY** 

www.vishay.com

## 561R and 562R Series

Vishay Cera-Mite

Document Number: 23109



ORDERING INFORMATION, CERAMIC 1000 V <sub>DC</sub> TEMPERATURE AND VOLTAGE STABILIZED									
C (nE)	TOL.	D <sub>max.</sub> DIAMETER	T <sub>max.</sub> THICKNESS	LS LEAD SPACE INCH (mm)	LO LEAD OFFSET	W	IRE SIZE	FIG.	ORDERING CODE
(pF)	(%)	INCH (mm)	INCH (mm)	± 1 mm	INCH (mm) ± 0.5 mm	AWG	INCH (mm)		CODE
COG (NPC									
10	± 10	0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	0.051 (1.3)	24	0.020 (0.51)	2	561R10TSQ10
U2J (N75	0)	1		1	0.047(4.0)		1	1	50101070007
27	-	± 10 0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	0.047 (1.2)	24 0.020 (0.51)	0.020 (0.51)	2	561R10TSQ27
<u>30</u> 33	± 10				0.039 (1.0)				561R10TSQ30 561R10TSQ33
33	-				0.039 (1.0)				561R10TSQ33
39 X5F					0.039 (1.0)			201R1015Q39	
56	1				0.075 (1.9)				562R10TSQ56
68	1				0.063 (1.6)				562R10TSQ50
75					0.059 (1.5)				562R10TSQ75
82					0.055 (1.4)				562R10TSQ82
100					0.055 (1.4)				562R10TST10
120					0.051 (1.3)				562R10TST12
150					0.043 (1.1)				562R10TST15
180					0.043 (1.1)				562R10TST18
200		0.250 (6.4)	0.156 (4.0)	0.250 (6.4)	0.039 (1.0)				562R10TST20
220	1	(- )			0.051 (1.3)				562R10TST22
250	1				0.047 (1.2)	0.4	0.000 (0.54)	•	562R10TST25
270	1				0.043 (1.1)	24	0.020 (0.51)	2	562R10TST27
300					0.039 (1.0)				562R10TST30
330	. 10	)			0.039 (1.0)				562R10TST33
390	± 10				0.043 (1.1)				562R10TST39
470					0.039 (1.0)				562R10TST47
500					0.039 (1.0)				562R10TST50
560		0.290 (7.4)	0.156 (4.0)	0.250 (6.4)	0.047 (1.2)				562R10TST56
680					0.043 (1.1)				562R10TST68
750					0.039 (1.0)				562R10TST75
820					0.039 (1.0)				562R10TST82
1000					0.035 (0.9)				562R10TSD10
1500	1	0.440 (11.2)	0.156 (4.0)	0.250 (6.4)	0.051 (1.3)				562R10TSD15
2000	1	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	0.051 (1.3)				562R10TSD20
2200	1	0.490 (12.4)	0.156 (4.0)	0.375 (9.5)	0.047 (1.2)	22	0.025 (0.64)	1	562R10TSD22
2700	1	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	0.051 (1.3)	~~	0.020 (0.04)	'	562R10TSD27
3300	1	0.560 (14.2)	0.156 (4.0)	0.375 (9.5)	0.047 (1.2)				562R10TSD33
4700		0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	0.051 (1.3)				562R10TSD47
X7R	1.40		0 4 5 0 (4 5)	0.075 (0.5)	0.047.(1.0)		0.005 (0.6.1)		50004070212
0.010 µF	± 10	0.680 (17.3)	0.156 (4.0)	0.375 (9.5)	0.047 (1.2)	22	0.025 (0.64)	1	562R10TSS10

#### TAPE AND REEL OPTIONS

• Tape and reel available on diameter sizes 0.250" to 0.680"

• Part number codes and specifications for tape and reel packaging are found in the general information document - find web-link below

RELATED DOCUMENTS	
General Information	www.vishay.com/doc?23140

Revision: 02-Mar-15

2 For technical questions, contact: ceramitesupport@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000





www.vishay.com

## Legal Disclaimer Notice

Vishay

### Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.