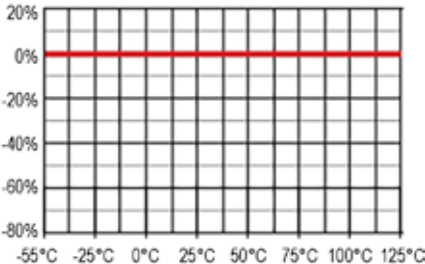
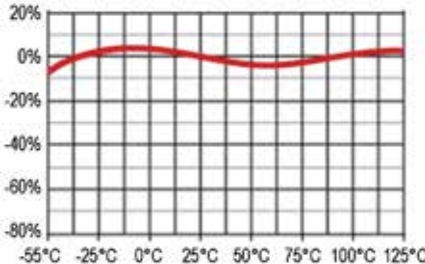




Capacitors

AC Safety, SMT - (UL / TUV Certified)

Electrical Characteristics

Parameter	NPO		X7R	
Temperature Coefficient	0 ± 30 ppm/°C	-55 to + 125°C	± 15%	-55 to + 125°C
				
Dissipation Factor	3.0% max		WVDC > 50 VDC, DF = 2.5% max WVDC = 25 VDC, DF = 3.0% max WVDC = 16 VDC, DF = 3.5% max	
Aging	None		2.5% / decade hour	
Insulation Resistance	1000ΩF or 100GΩ Whichever is less @ 25°C, WVDC		500ΩF or 50GΩ Whichever is less @ 25°C, WVDC	
Dielectric Strength	For Vrated = 6 - 200 VDC, DWV = 2.5 X WVDC, 25°C, 50mA max. For Vrated = 201 - 499 VDC, DWV = 2.0 X WVDC, 25°C, 50mA max. For Vrated = 500 - 999 VDC, DWV = 1.5 X WVDC, 25°C, 50mA max. For Vrated = 1000 + VDC, DWV = 1.2 X WVDC, 25°C, 50mA max.			
Test Parameters	C ≤ 100 pF 1MHz ± 50KHz; 1.0 ± 0.2 VRMS C > 100 pF 1KHz ± 50Hz; 1.0 ± 0.2 VRMS		1KHz ± 50Hz; 1.0 ± 0.2 VRMS	
Notes	TANCERAM IR = 100 ΩF or 10 GΩ, TANCERAM DF for Vrated > 50 VDC = 5% max., & TANCERAM DF for Vrated < 25 VDC, DF = 10% max.			

HOW TO ORDER

SC	DP	502	W	102	J	4	GF	001	E
Subfamily	Size	Voltage	DTC	Capacitance	Tol	Mark	Termination	Special Code	Pack
SC = AC Safety Caps	DP = 1808 ED = 2211 DR = 1812 EF = 2220	302 = 250VAC [2500V Impulse] 502 = 250VAC [5000V Impulse]	G = NPO/COG W = X7R	1st two digits are significant; 3rd digit denotes number of zeros. 101 = 100 pF 103 = 0.01 μF 105 = 1.00 μF	J = ± 5% K = ± 10% M = ± 20%	4 = Required safety mark	GV = Ni/Sn (RoHS) GF = Polyterm Sn (RoHS)	001 = Default catalog item	B = Bulk E = 7" Reel Emb Tape U = 13" Reel Emb Tape

Example: **SCDP502W102J4GF001E** Capacitors Safety Caps - SC, X1/Y2, 1808, X7R, 5000V, 1000pF, ±5%, Polyterm Sn (RoHS), 7" Reel Embossed Tape

Johanson Part Number SCDP502W102K4GV001E

Johanson Part Number: SCDP502W102K4GV001E

Johanson Company: JDI

Legacy P/N: 502R29W102KV3E-****-SC

Size for Capacitors (EIA): 1808

Description: Capacitors Safety Caps, X1/Y2, 1808, X7R, 5000V, 1000pF±10%, Ni/Sn (RoHS), 7" Reel Embossed Tape

Specification Number:
UL60950,EN/UL/IEC60384-14

Life Cycle Stage: Active

NCNR: No

AEC Q200 Qualified: No

Thickness (Max): 0.085

Schedule B: 8532.24.00.20

Thickness (Min): None

ITAR: No

End Band(Min): 0.01

ECCN: EAR99

End Band (max): 0.020

RoHS Compliance: Yes, RoHS 10/10

Standard Item: Yes

REACH: Yes

Lead Time Typical (Weeks)*: 12

Country of Origin: US

Length (Min): 0.170

Product Family: Capacitors

Length (Max): 0.210

Product Subfamily: Capacitors Safety Caps

Width (Min):0.068

Capacitance Value: 1000.000

Width (Max): 0.092

Cap Unit of Meas: pF

Part Weight (mg): 80.00

Tolerance: ±10%

Packaged Width (lb) Arm: None

Voltage: 5000.0

Packaging: 7" Reel Embossed Tape

Dielectric Temp Coefficient: X7R

Packaging Qty: 2000

Termination: 68

Operating Temp Range: -55°C to +125°C

Marking: Required Safety Mark

Storage Temp Range (Packaged): -65°C to +125°C

Product Release Date: Jan. 4, 2006, 8 a.m.

Storage Temp Range (None Operating): +5°C to +40°C with RH 20% to 70%

Harmonization: 8532.24.00.20

*This can vary significantly so it is important to obtain a quotation with lead time for production planning purposes.

Web Page Link: <https://www.johansondielectrics.com/ac-safety-capacitors>

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