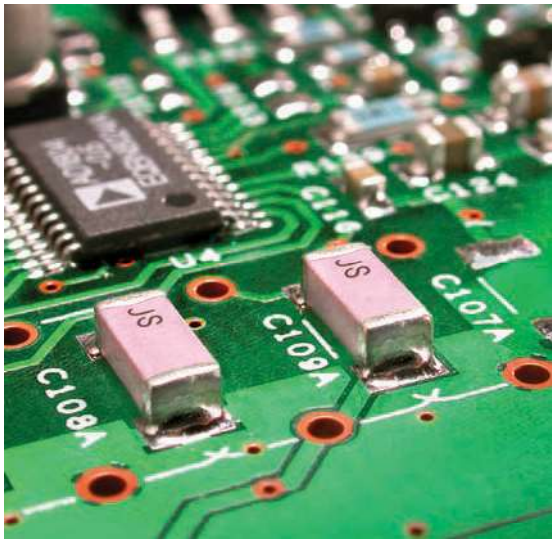
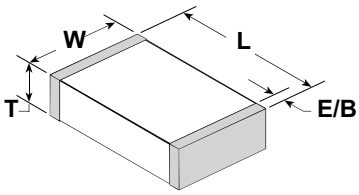
THE DATASHEET OF

302R29W331KV3E-****-SC

AC Safety Capacitors



Johanson Dielectrics Type SC ceramic chip capacitors are designed for AC voltage surge and lightning protection in line-to-ground interface applications in computer networks, modem, facsimile and other equipment.
Johanson's safety capacitor offering includes four different case sizes in NP0 and X7R dielectric materials.
These devices are surface mount ready with barrier terminations and tape and reel packaging.
Information on capacitor safety ratings and certification details may be found below.



Polyterm® soft termination option for demanding environments & processes available on select parts, please contact the factory.

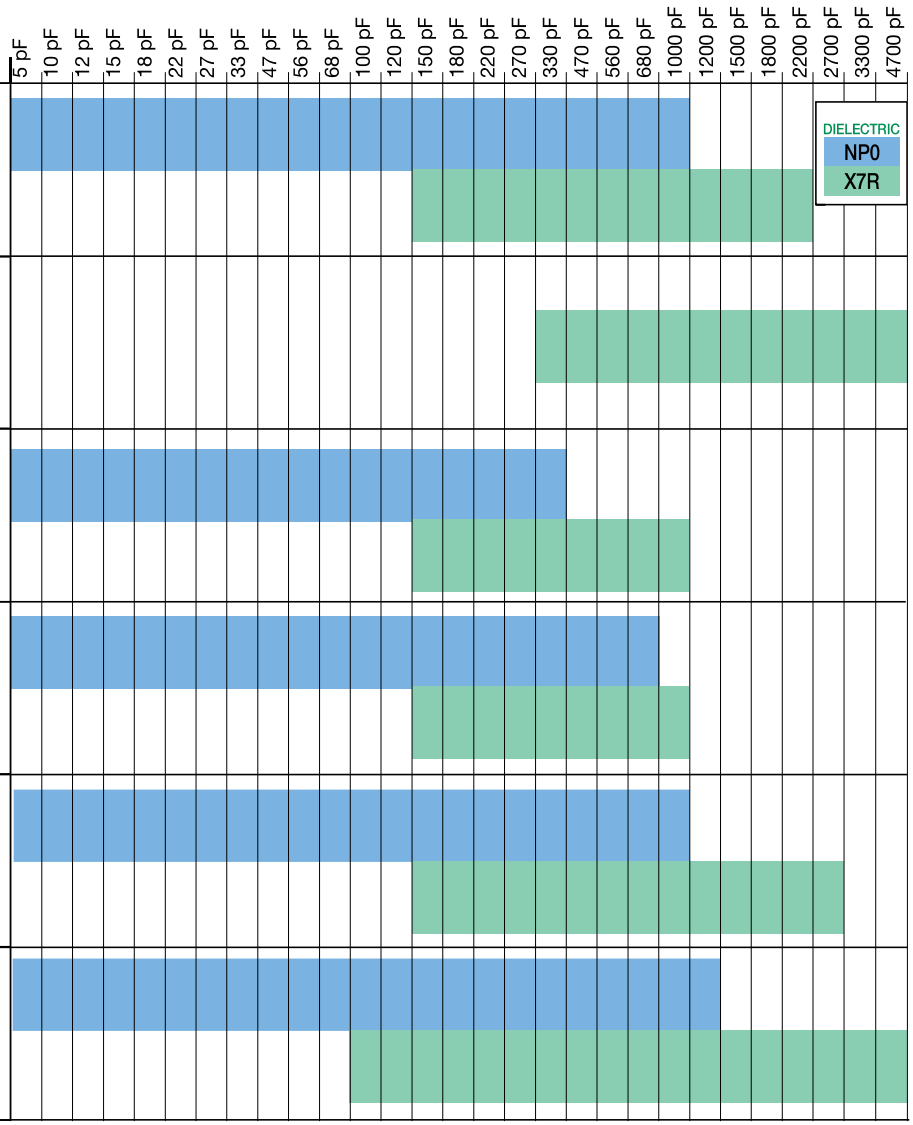
SAFETY RATING	VOLTAGE RATING	WITHSTANDING VOLTAGE	IMPULSE VOLTAGE	CASE SIZE	JOHANSON ORDERING P/N
X2	250 VAC	1,500 VAC	2,500 V	1808	302R29_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					
X2	250 VAC	1,500 VAC	2,500 V	1812	302S43_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					
X1/Y2	250 VAC	1,500 VAC	5,000 V	1808	502R29_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					
X1/Y2	250 VAC	1,500 VAC	2,500 V	1812	502S43_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					
X1/Y2	250 VAC	1,500 VAC	5,000 V	2211	502R30_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					
X1/Y2	250 VAC	1,500 VAC	5,000 V	2220	502S47_____V3E-****-SC
STANDARDS: IEC/EN 60384-14:2013 EN 60950 2006 • UL 60384-14, UL 60950-01 **CERTIFICATIONS**: TUV R 50227900 & T 72140662 • UL File E472557 & E212609					

X Capacitors are defined as suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

Y Capacitors are defined as suitable for use in situations where failure of the capacitor could lead to danger of electric shock.

AC Safety Capacitors

Safety Certified



		INCHES	(MM)
R29 / 1808 X2	L	.185 ±.015	(4.70 ±.38)
	W	.080 ±.010	(2.03 ±.25)
	T	.085 Max.	(2.16)
	E/B	.020 ±.010	(0.51±.25)
S43 / 1812 X2	L	.175 ±.010	(4.45 ±.25)
	W	.125 ±.010	(3.18 ±.25)
	T	.115 Max.	(2.92)
	E/B	.025 ±.015	(0.64±.38)
R29 / 1808 X1/Y2	L	.185 ±.015	(4.70 ±.38)
	W	.080 ±.015	(2.03 ±.38)
	T	.085 Max.	(2.16)
	E/B	.020 ±.010	(0.51±.25)
S43 / 1812 X1/Y2	L	.175 ±.010	(4.45 ±.25)
	W	.125 ±.010	(3.18 ±.25)
	T	.115 Max.	(2.92)
	E/B	.025 ±.015	(0.64±.38)
R30 / 2211 X1/Y2	L	.225 ±.016	5.72 ±.40)
	W	.110 ±.010	(2.80 ±.25)
	T	.115 Max.	(2.92)
	E/B	.020 ±.010	(0.51±.25)
S47 / 2220 X1/Y2	L	.225 ±.015	(5.72 ±.38)
	W	.200 ±.015	(5.08 ±.38)
	T	.150 Max.	(3.81)
	E/B	.025 ±.015	(0.64±.38)

How to Order AC Safety Capacitors

P/N written: 302R29W102MV3E-****-SC

502	R29	W	102	M	V	3	E	-****-SC
VOLTAGE	**SIZE**	**DIELECTRIC**	**CAPACITANCE**	**TOLERANCE**	**TERMINATION**	**MARKING**	**PACKING**	**TYPE**
302 = 250VAC [2500V Impulse] 502 = 250VAC [5000V Impulse]	R29=1808 R30=2211 S43=1812 S47=2220 AC2=2220	N = NP0 W = X7R	1st two digits are significant; third digit denotes number of zeros, R = decimal. 102 = 1000 pF 104 = 0.10 µF 5R0 = 5.0pF	J = ± 5% K = ± 10% M = ± 20%	V = NI Barrier with 100% Sn Plating (Matte) F = Polyterm flexible termination	3 = Required Safety Mark	E = Embossed 7” U = Embossed 13” No code = bulk Tape specs. per EIA RS481	SC = Safety Certified

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 302R29W331KV3E-****-SC on WIN SOURCE
- Johanson Dielectrics Inc. Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management