

6KV HIGH VOLTAGE CERAMIC CAPACITORS



FEATURES

- 6000VDC Rating
- Available with Polyterm® Soft Terminations
- 100% GREEN PRODUCT

APPLICATIONS

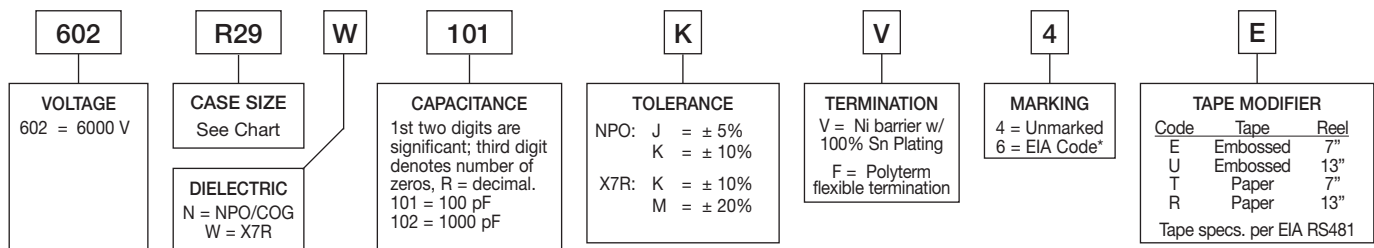
- Analog & Digital Modems
- Lighting Ballast Circuits
- DC-DC Converters
- LAN/WAN Interface
- Voltage Multipliers
- Back-lighting Inverters

CAPACITANCE SELECTION

CASE SIZE	VOLTAGE RATING	NPO Dielectric		X7R Dielectric	
		Minimum	Maximum	Minimum	Maximum
R29 / 1808	6,000 VDC	1.0 pF	75 pF	47 pF	120 pF
S43 / 1812	6,000 VDC	10 pF	150 pF	10 pF	680 pF
S49 / 1825	6,000 VDC	10 pF	390 pF	10 pF	820 pF
S47 / 2220	6,000 VDC	10 pF	470 pF	100 pF	1500 pF
S48 / 2225	6,000 VDC	10 pF	680 pF	100 pF	1500 pF

Available capacitance values include the following significant retma values and their multiples: 1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 (1.0 = 1.0, 10, 100, 1000, etc.) Consult factory for non-retma values and sizes or voltages not shown.

HOW TO ORDER Part number written: 602R29W101KV4E



6KV HIGH VOLTAGE CERAMIC CAPACITORS

ELECTRICAL CHARACTERISTICS	NPO	X7R
Temperature Coefficient:	±15% (-55 to +125°C)	±15% (-55 to +125°C)
Dielectric Strength:	1.2 X WVDC, 25°C, 50mA max.	
Dissipation Factor:	0.1% max.	2.5% max.
Insulation Resistance (Min. @ 25°C, WVDC)	C ≤ 0.047µF: 1000 ΩF or 100 GΩ, whichever is less C > 0.047µF: 500 ΩF or 10 GΩ, whichever is less	
Test Conditions:	C > 100 pF; 1kHz ±50Hz; 1.0±0.2 VRMS C ≤ 100 pF; 1Mhz ±50kHz; 1.0±0.2 VRMS	1.0kHz±50Hz @ 1.0±0.2 Vrms
	Testing performed in high voltage oil.	
Other:	See main catalog page 18 for additional dielectric specifications.	

APPLICATION NOTES:

- These components must be conformally coated after mounting to the PCB to prevent surface arcing.
- Johanson strongly advises against the use of solder mask beneath this component to prevent flux and cleaning residue entrapment. For further information please see Application Note: **Surface Arc Season and Board Design**

PHYSICAL CHARACTERISTICS

CASE SIZE	R29 / 1808		S43 / 1812		S49 / 1825		S47 / 2220		S48 / 2225	
	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)
Length	.189 ±.010	(4.80 ±.25)	.180 ±.010	(4.57 ±.25)	.180 ±.010	(4.57 ±.25)	.225 ±.015	(5.72 ±.38)	.225 ±.010	(5.72 ±.25)
Width	.080 ±.010	(2.03 ±.25)	.125 ±.010	(3.17 ±.25)	.250 ±.010	(6.35 ±.25)	.200 ±.015	(5.08 ±.38)	.255 ±.015	(6.48 ±.38)
Thickness	.085 Max.	(2.16)	.110 Max.	(2.80)	.140 Max.	(3.56)	.150 Max.	(3.81)	.160 Max.	(4.06)
E/B	.020 ±.010	(0.51±.25)	.025 ±.015	(0.64±.38)	.025 ±.015	(0.64±.38)	.025 ±.015	(0.64±.38)	.025 ±.015	(0.64±.38)

