

# VOLTRONICS SMD Multi-Turn & Half-Turn Trimmer Capacitors



Voltronics Corporation is the world's leader in the design and manufacture of precision trimmer capacitors. Voltronics combines engineering know-how with leading edge technology and offers a variety of dielectrics that are suitable for applications from 1MHz to over 2GHz and voltages up to 20,000 VDC.

## MULTI-TURN TRIMMER CAPACITORS

### A1 SERIES

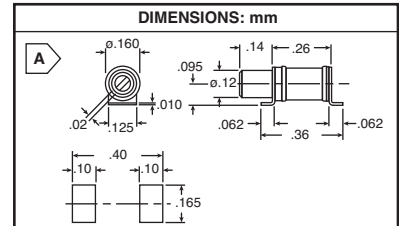
The Voltronics A1 Series high reliability solid dielectric trimmer capacitor is an ideal, economical replacement for conventional miniature air and sapphire dielectric trimmers. High reliability solid PTFE dielectric, positive tuning stops and up to 13 full turns of linear turning make the A1 Series an outstanding performer. 40 psi sealed, high voltage and non-magnetic versions are readily available.



RoHS Compliant

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Voltronics Part No.	Fig.	Cap. Range (pF)		Working Voltage	Withstanding Voltage	Q	Price Each		
			Min.	Max.				1	10	50
768-A1J4	A1J4	A	0.5	4.0	250	500	4000 @ 100MHz	23.87	21.82	15.35
768-A1J8	A1J8	A	0.5	8.0	125	250	3000 @ 100MHz	27.37	25.02	17.60
768-A1J12	A1J12	B	0.6	12.0	125	250	2000 @ 100MHz	33.95	31.04	21.83



### A4 SERIES

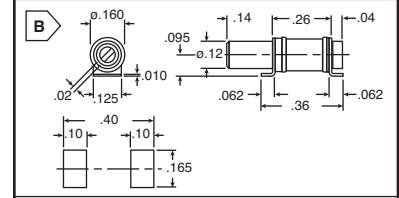
The A4 Series unique design using minimal parts simplifies the manufacturing process to effect one of the most economical high performance trimmer capacitors available in the industry. Also offers a high reliability solid PTFE dielectric, positive tuning stops and up to 5 full turns of linear tuning in the shortest length of any similar trimmer capacitor. It is an ideal choice for tuning and impedance matching high frequency and high power amplifier circuits.



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			Min.	Max.				1	10	50
768-A4M3	A4M3	C	0.5	3.0	125	250	3000 @ 100MHz	21.49	19.65	13.82
768-A4M5	A4M5	D	0.6	5.0	125	250	2000 @ 100MHz	21.88	20.00	14.06



### P SERIES

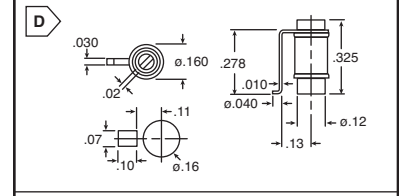
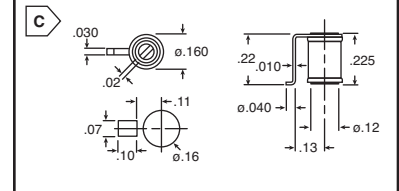
Voltronics "P" line of sapphire subminiature trimmer capacitors is a unique design. The trimmers have high Q, zero temperature coefficient, and are internally O-ring sealed to keep out flux and cleaning fluid. Yet, sizes are the same as the MIL unsealed styles. The tuning screw does not move in and out, and RF current does not run along it. Sapphire is ideal for precision trimmer capacitors. It's dielectric constant does not change with frequency, and its loss constant is extremely stable, measuring below 0.0003 up to 10 GHz. Sapphire is chemically inert, totally moisture resistant, and mechanically strong.



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			Min.	Max.				1	10	50
768-P3F	P3F	E	0.6	2.5	500	1000	4000 @ 250MHz	40.78	37.28	26.21
768-P5F	P5F	E	0.6	4.5	500	1000	3000 @ 250MHz	42.74	39.07	27.47
768-P8F	P8F	E	0.8	8.0	500	1000	1500 @ 250MHz	46.83	42.82	30.11
768-P3J	P3J	F	0.6	2.5	500	1000	4000 @ 250MHz	41.55	37.98	26.71
768-P5J	P5J	F	0.6	4.5	500	1000	3000 @ 250MHz	43.51	39.78	27.97
768-P8J	P8J	F	0.8	8.0	500	1000	1500 @ 250MHz	47.67	43.58	30.65



## HALF-TURN CERAMIC TRIMMER CAPACITORS

### JN SERIES

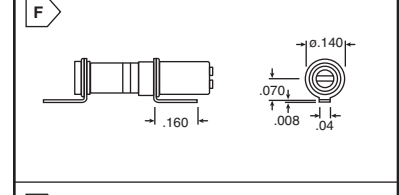
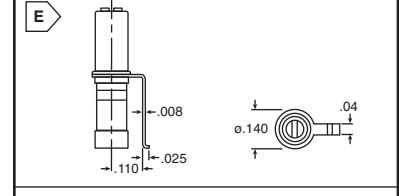
- Features:
- Operating Temperature: -25°C to +85°C
  - Torque: .014 to .14 in-oz
  - Insulation Resistance: 10<sup>4</sup> MΩ



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MOUSER STOCK NO.	Voltronics Part No.	Fig.	Cap. Range (pF)		Working Voltage	Withstanding Voltage	Q	Price Each		
			Min.	Max.				1	10	100
768-JN010	JN010	G	0.6	1.0	25	55	500 @ 1MHz	4.62	4.22	2.97
768-JN040	JN040	G	1.5	4.0	25	55	300 @ 1MHz	3.15	2.88	2.03
768-JN080	JN080	G	3.0	8.0	25	55	300 @ 1MHz	3.15	2.88	2.03



### JR SERIES

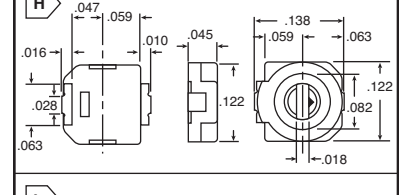
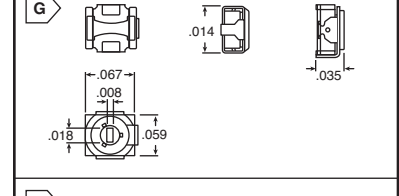
- Features:
- Operating Temperature: -40°C to +85°C
  - Torque: 0.6 in-oz max.
  - Insulation Resistance: 10<sup>4</sup> MΩ



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			Min.	Max.				1	10	100
768-JR030	JR030	H	1.5	3.0	100	220	500 @ 1MHz	2.38	2.18	1.53
768-JR060	JR060	H	2.0	6.0	100	220	1000 @ 1MHz	2.49	2.29	1.60
768-JR080	JR080	H	3.0	8.0	100	220	1500 @ 1MHz	2.00	1.82	1.28
768-JR100	JR100	H	2.0	10.0	100	220	1500 @ 1MHz	2.24	2.05	1.44
768-JR150	JR150	H	3.0	15.0	100	220	1500 @ 1MHz	2.24	2.05	1.44
768-JR200	JR200	H	4.5	20.0	100	220	1500 @ 1MHz	2.24	2.05	1.44
768-JR300	JR300	H	5.5	30.0	100	220	1500 @ 1MHz	2.24	2.05	1.44
768-JR400	JR400	H	8.0	40.0	100	220	1500 @ 1MHz	2.63	2.40	1.69



### JZ SERIES

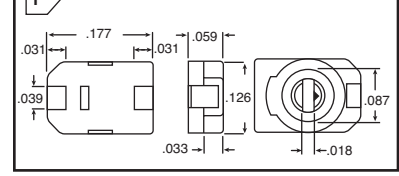
- Features:
- Operating Temperature: -40°C to +85°C
  - Torque: 0.14 to 1.0 in-oz
  - Insulation Resistance: 10<sup>4</sup> MΩ



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MOUSER STOCK NO.	Voltronics Part No.	Fig.	Cap. Range (pF)		Working Voltage	Withstanding Voltage	Q	Price Each		
			Min.	Max.				1	10	100
768-JZ030	JZ030	I	1.5	3.0	100	220	500 @ 1MHz	1.96	1.79	1.26
768-JZ060	JZ060	I	2.0	6.0	100	220	1000 @ 1MHz	1.96	1.79	1.26
768-JZ080	JZ080	I	3.0	8.0	100	220	1500 @ 1MHz	1.96	1.79	1.26
768-JZ100	JZ100	I	2.0	10.0	100	220	1500 @ 1MHz	2.77	2.53	1.78
768-JZ150	JZ150	I	3.0	15.0	100	220	1500 @ 1MHz	2.21	2.02	1.42
768-JZ200	JZ200	I	4.5	20.0	100	220	1500 @ 1MHz	2.77	2.55	1.78



Trimmer Capacitors