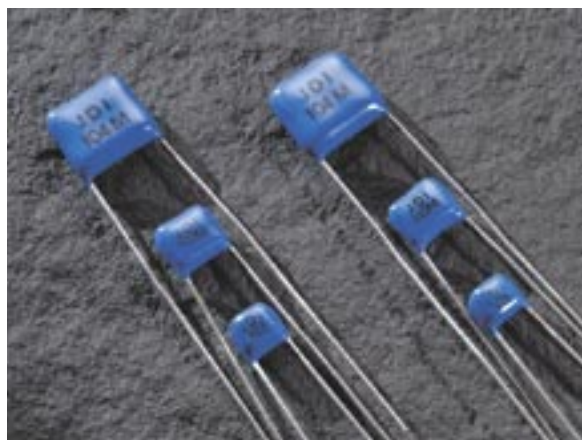


HIGH VOLTAGE RADIAL LEADED CAPACITORS



KEY FEATURES

- Rated Working Voltages from 500 to 15,000 VDC
- Rugged Epoxy Coating Offers Increased Protection
- Compact MLC Designs Smaller Than Film or Disc
- DSCC Drawing & Other Screened Versions Available
- Custom Sizes, Voltages, and Values Available

APPLICATIONS

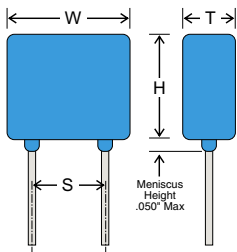
- Power Supplies
- Voltage Multipliers
- Data Isolation
- Surge Protection
- Industrial Control Circuits
- Custom Applications

CAPACITANCE / VOLTAGE SELECTION

				RATED VOLTAGE	NPO CAPACITANCE (MAX.)		X7R CAPACITANCE (MAX.)	
					VALUE	CODE	VALUE	CODE
 H42	In.	(mm)		500 VDC	4700 pF	472	.068 μ F	683
	W	0.250 Max	(6.35 Max)	1000 VDC	1500 pF	152	.022 μ F	223
	H	0.220 Max	(5.59 Max)	2000 VDC	680 pF	681	3300 pF	332
	T	0.270 Max	(6.86 Max)	3000 VDC	330 pF	331	2200 pF	222
	S	0.170 $\pm$ 0.03	(4.32 $\pm$ 0.76)	4000 VDC	150 pF	151	680 pF	681
	Ld	0.025 $\pm$.002	(0.64 $\pm$ 0.05)	5000 VDC	100 pF	101	330 pF	331
 H47	In.	(mm)		500 VDC	.022 μ F	223	.220 μ F	224
	W	0.370 Max	(9.40 Max)	1000 VDC	3300 pF	332	.068 μ F	683
	H	0.300 Max	(7.62 Max)	2000 VDC	1500 pF	152	.015 μ F	153
	T	0.270 Max	(6.86 Max)	3000 VDC	680 pF	681	6800 pF	682
	S	0.275 $\pm$ 0.03	(6.99 $\pm$ 0.76)	4000 VDC	330 pF	331	2200 pF	222
	Ld	0.025 $\pm$.002	(0.64 $\pm$ 0.05)	5000 VDC	220 pF	221	1000 pF	102
 H51	In.	(mm)		500 VDC	.056 μ F	563	.470 μ F	474
	W	0.470 Max	(12.0 Max)	1000 VDC	4700 pF	472	.150 μ F	154
	H	0.400 Max	(10.2 Max)	2000 VDC	3300 pF	332	.047 μ F	473
	T	0.320 Max	(8.13 Max)	3000 VDC	1500 pF	152	.033 μ F	333
	S	0.375 $\pm$ 0.03	(9.53 $\pm$ 0.76)	4000 VDC	1000 pF	102	.010 μ F	103
	Ld	0.025 $\pm$.002	(0.64 $\pm$ 0.05)	5000 VDC	470 pF	471	6800 pF	682
 H62	In.	(mm)		500 VDC	.100 μ F	104	1.00 μ F	105
	W	0.570 Max	(14.5 Max)	1000 VDC	.010 μ F	103	.330 μ F	334
	H	0.500 Max	(12.7 Max)	2000 VDC	6800 pF	682	.100 μ F	104
	T	0.320 Max	(8.13 Max)	3000 VDC	3300 pF	332	.068 μ F	683
	S	0.475 $\pm$ 0.03	(12.1 $\pm$ 0.76)	4000 VDC	2200 pF	222	.022 μ F	223
	Ld	0.025 $\pm$.002	(0.64 $\pm$ 0.05)	5000 VDC	1000 pF	102	.010 μ F	103

CAPACITANCE / VOLTAGE SELECTION

CAPACITANCE / VOLTAGE SELECTION				RATED		NPO CAPACITANCE (MAX.)		X7R CAPACITANCE (MAX.)	
				VOLTAGE		VALUE		CODE	
 H66	In.	(mm)		500 VDC		.150 μ F	154	1.50 μ F	155
	W	0.670 Max	(17.0 Max)	1000 VDC		.015 μ F	153	.470 μ F	474
	H	0.600 Max	(15.2 Max)	2000 VDC		.010 μ F	103	.150 μ F	154
	T	0.320 Max	(8.13 Max)	3000 VDC		4700 pF	472	.068 μ F	683
	S	0.575 $\pm$ 0.03	(14.6 $\pm$ 0.76)	4000 VDC		3300 pF	332	.022 μ F	223
	Ld	0.025 $\pm$ 0.002	(0.64 $\pm$ 0.05)	5000 VDC		2200 pF	222	.010 μ F	103
 H70	In.	(mm)		500 VDC		224 μ F	224	2.20 μ F	225
	W	0.770 Max	(19.6 Max)	1000 VDC		223 μ F	223	1.00 μ F	105
	H	0.720 Max	(18.3 Max)	2000 VDC		.015 μ F	153	.220 μ F	224
	T	0.320 Max	(8.13 Max)	3000 VDC		6800 pF	682	.150 μ F	154
	S	0.675 $\pm$ 0.03	(17.1 $\pm$ 0.76)	4000 VDC		4700 pF	472	.047 μ F	473
	Ld	0.025 $\pm$ 0.002	(0.64 $\pm$ 0.05)	5000 VDC		3300 pF	332	.033 μ F	333
 H72	In.	(mm)		500 VDC		.330 μ F	334	3.30 μ F	335
	W	0.870 Max	(22.1 Max)	1000 VDC		.100 μ F	104	1.80 μ F	185
	H	0.750 Max	(19.1 Max)	2000 VDC		.056 μ F	563	.390 μ F	394
	T	0.320 Max	(8.13 Max)	3000 VDC		.033 μ F	333	.180 μ F	184
	S	0.775 $\pm$ 0.03	(19.7 $\pm$ 0.76)	4000 VDC		.010 μ F	103	.056 μ F	563
	Ld	0.025 $\pm$ 0.002	(0.64 $\pm$ 0.05)	5000 VDC		6800 pF	682	.039 μ F	393
 H80	In.	(mm)		500 VDC		.470 μ F	474	4.70 μ F	475
	W	1.450 Max	(36.8 Max)	1000 VDC		.047 μ F	473	2.20 μ F	225
	H	0.720 Max	(18.3 Max)	2000 VDC		.033 μ F	333	.470 μ F	474
	T	0.320 Max	(8.13 Max)	3000 VDC		.015 μ F	153	.330 μ F	334
	S	1.375 $\pm$ 0.03	(34.9 $\pm$ 0.76)	4000 VDC		.010 μ F	103	.100 μ F	104
	Ld	0.025 $\pm$ 0.002	(.064 $\pm$ 0.05)	5000 VDC		6800 pF	682	.068 μ F	683



Dielectric specifications are listed on page 16

Consult factory for voltages up to 15KV and other tooled sizes such as 2020, 3327, 3640, & 4020

HOW TO ORDER

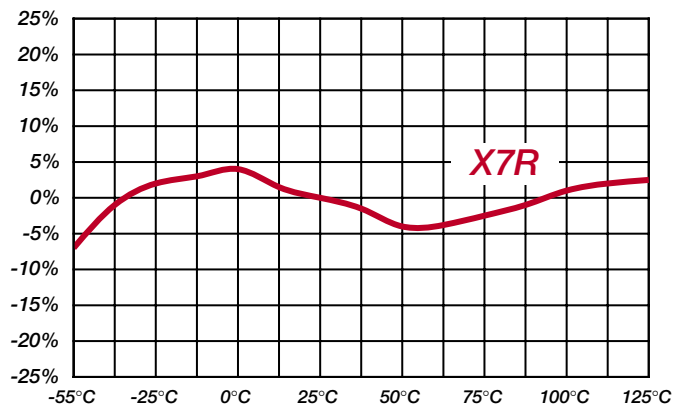
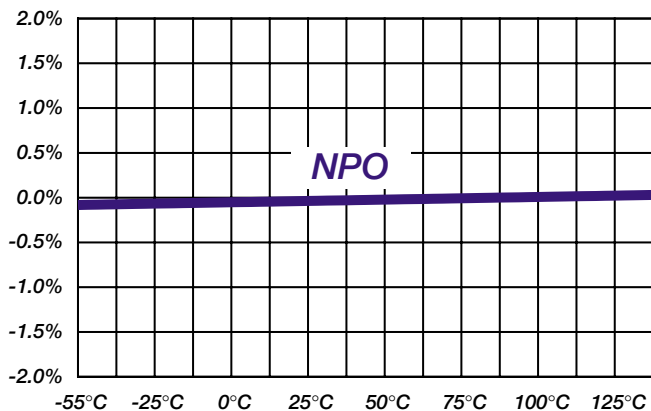
102	H42	W	101	K	Q	4	
VOLTAGE	CASE SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION	MARKING	SPECIAL MODIFIER
Standard Voltages: 501 = 500 V 102 = 1000 V 202 = 2000 V 302 = 3000 V 402 = 4000 V 502 = 5000 V 103 = 10000 V* 153 = 15000 V*	See Chart	N = NPO W = X7R	1st two digits are significant; third digit denotes number of zeros. 101 = 100 pF 102 = 1000 pF 103 = 0.01 μ F 105 = 1.00 μ F	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20% Z = +80% -20%	Q = Leaded & Encapsulated	4 = Standard 3 = Specified	H = High Rel Testing per Customer
*Consult factory for availability							
Part number written: 102H42W101KQ4							

LARGE FORM FACTOR CAPACITOR CHIPS 50 - 5,000 VDC

DIELECTRIC CHARACTERISTICS

	NPO DIELECTRIC	X7R DIELECTRIC
TEMPERATURE COEFFICIENT:	$0 \pm 30 \text{ ppm} / ^\circ\text{C}$, -55 to 125°C	$0 \pm 15\%$, -55 to 125°C
DISSIPATION FACTOR:	.001 (0.1%) max, 1Khz, 25°C	.025 (2.5%) max, 1KHz, 25°C
AGEING:	None	2.5% / decade hour
INSULATION RESISTANCE:	1000 Ω F or 100 G Ω , whichever is less @ 25°C, WVDC (1KVDC max)	1000 Ω F or 100 G Ω , whichever is less @ 25°C, WVDC (1KVDC max)
DIELECTRIC STRENGTH:		
FOR 1,000 - 5,000 V RATINGS:	1.2 X WVDC, 25°C, 50 mA max	1.2 X WVDC, 25°C, 50 mA max
FOR 500 V RATINGS:	750 VDC, 25°C, 50 mA max	750 VDC, 25°C, 50 mA max
FOR 200 -250 V RATINGS:	2.0 X WVDC, 25°C, 50 mA max	2.0 X WVDC, 25°C, 50 mA max
FOR 50 -100 V RATINGS:	2.5 X WVDC, 25°C, 50 mA max	2.5 X WVDC, 25°C, 50 mA max
TEST PARAMETERS:	1Khz $\pm$ 50Hz, 1.0 $\pm$ 0.2 VRMS, 25°C	1Khz $\pm$ 50Hz, 1.0 $\pm$ 0.2 VRMS, 25°C

TYPICAL CAPACITANCE CHANGE VS TEMPERATURE:



Johanson Dielectrics, Inc. reserves the right to make design and price changes without notice. All sales are subject to Johanson Dielectrics, Inc. terms and conditions printed on the back side of our sales order acknowledgment forms including a limited warranty and remedies for non-conforming goods or defective goods. We will be pleased to provide a copy of these terms and conditions for your review.