

# LARGE SIZE CAPACITOR CHIPS 50 - 5,000 VDC






## KEY FEATURES

- Rated Working Voltages from 50 to 15,000 VDC
- Low ESR Ceramic Out-performs Tantalums
- Compact MLC Designs Smaller Than Film or Disc
- MIL-PRF-55681 & Hi-Rel Screened Versions Available
- Custom Sizes, Voltages, and Values Available

## APPLICATIONS

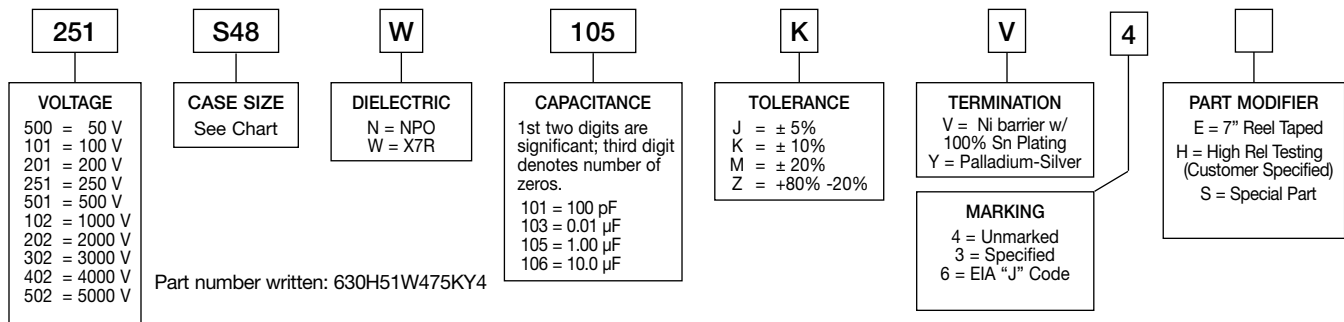
- Power Supplies
- Voltage Multipliers
- Data Isolation
- Surge Protection
- Industrial Control Circuits
- Custom Applications

## MAXIMUM CAPACITANCE VS DC VOLTAGE RATING

S49 / 1825			50 V	100 V	250 V	500 V	1K V	2K V	3K V	4K V	5K V	
	Inches	(mm)										
	L	.180 ±.010 (4.57 ±.25)	NPO	473	383	273	273	153	562	222	102	271
	W	.250 ±.010 (6.35 ±.25)	X7R	185	105	125	334	104	223	822	202	821
T	.140 Max. (3.56 Max)											
E/B	.025 ±.015 (0.64±.38)											
S47 / 2220			50 V	100 V	250 V	500 V	1K V	2K V	3K V	4K V	5K V	
	Inches	(mm)										
	L	.225 ±.015 (5.72 ±.38)	NPO	683	473	333	273	183	682	272	122	391
	W	.200 ±.015 (5.08 ±.38)	X7R	185	125	105	564	184	273	822	332	152
T	.150 Max. (3.81 Max)											
E/B	.025 ±.015 (0.64±.38)											
S48 / 2225			50 V	100 V	250 V	500 V	1K V	2K V	3K V	4K V	5K V	
	Inches	(mm)										
	L	.225 ±.010 (5.72 ±.25)	NPO	753	563	393	333	223	822	472	222	681
	W	.255 ±.015 (6.48 ±.38)	X7R	225	225	125	824	224	473	153	563	222
T	.150 Max. (3.81 Max)											
E/B	.025 ±.015 (0.64±.38)											

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.)

## HOW TO ORDER



## MAXIMUM CAPACITANCE VS DC VOLTAGE RATING

<b>H42 / 1515</b> 		<b>500 V</b>	<b>1K V</b>	<b>2K V</b>	<b>3K V</b>	<b>4K V</b>	<b>5K V</b>			
	Inches (mm)									
	L .150 ±.015 (3.81 ±.38)	<b>NPO</b>	472	152	681	331	151	101		
W .150 ±.015 (3.81 ±.38)	<b>X7R</b>	683	223	332	222	681	331			
T .150 Max. (3.81 Max)										
E/B .025 ±.015 (0.64±.38)										
<b>H47 / 2520</b> 		<b>500 V</b>	<b>1K V</b>	<b>2K V</b>	<b>3K V</b>	<b>4K V</b>	<b>5K V</b>			
	Inches (mm)									
	L .250 ±.018 (6.35 ±.46)	<b>NPO</b>	223	332	152	681	331	221		
W .200 ±.015 (5.08 ±.38)	<b>X7R</b>	224	683	153	682	222	102			
T .150 Max. (3.81 Max)										
E/B .025 ±.015 (0.64±.38)										
<b>H51 / 3530</b> 		<b>500 V</b>	<b>1K V</b>	<b>2K V</b>	<b>3K V</b>	<b>4K V</b>	<b>5K V</b>			
	Inches (mm)									
	L .350 ±.035 (8.89 ±.89)	<b>NPO</b>	563	472	332	152	102	471		
W .300 ±.030 (7.62 ±.76)	<b>X7R</b>	474	154	473	333	103	682			
T .200 Max (5.08 Max)										
E/B .025 ±.015 (0.64±.38)										
<b>H54 / 3640</b> 		<b>50 V</b>	<b>100 V</b>	<b>250 V</b>	<b>500 V</b>	<b>1K V</b>	<b>2K V</b>	<b>3K V</b>	<b>4K V</b>	<b>5K V</b>
	Inches (mm)									
	L .360 ± .030 (9.14 ± .76)	<b>NPO</b>	224	184	154	683	822	332	222	152
W .400 ± .030 (10.16 ±.76)	<b>X7R</b>	825	565	475	155	474	683	473	153	822
T .200 Max (5.08 Max)										
E/B .025 ±.015 (0.64±.38)										

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 sizes, values, & voltages not shown.

## ELECTRICAL CHARACTERISTICS

Meets the standard NPO & X7R dielectric specifications listed on page 28 & 29 except

Dielectric Withstanding Voltage      DWV = 750 VDC for 500 WVDC rated units,  
                                                          DWV = 945 VDC for 630 WVDC rated units,  
                                                          DWV = 1.2 X rated WVDC for ratings ≥ 1,000 WVDC

NOTE: Circuit applications above 1KVDC may require surface coating to prevent external arcing.

