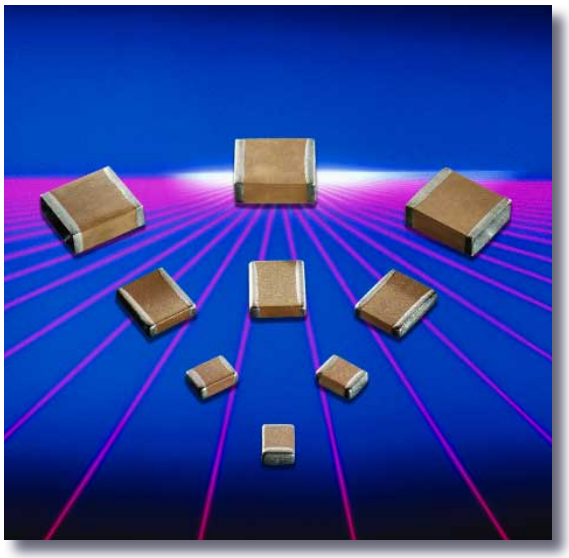
Special Size (1515 - 3640) Chip Capacitors 500 - 5,000 VDC



Key Features

- Rated Working Voltages from 50 to 5,000 VDC
- Low ESR Ceramic Out-performs Tantalums
- Compact MLC Designs Smaller Than Film or Disc
- MIL-PRF-55681 Screened Versions Available
- Custom Sizes, Voltages, and Values Available

Applications

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

Capacitance Selection 500-5,000 VDC

		INCHES	(mm)	RATED VOLTAGE	NPO DIELECTRIC MIN.		NPO DIELECTRIC MAX.		X7R DIELECTRIC MIN.		X7R DIELECTRIC MAX.	
H42 / 1515				500 VDC	100	10 pF	472	4700 pF	102	1000 pF	683	.068 µF
				1000 VDC	100	10 pF	152	1500 pF	102	1000 pF	223	.022 µF
	L	.150 ±.015	(3.81 ±.38)	2000 VDC	100	10 pF	681	680 pF	471	470 pF	332	3300 pF
	W	.150 ±.015	(3.81 ±.38)	3000 VDC	100	10 pF	331	330 pF	471	470 pF	222	2200 pF
	T	.150 Max.	(3.81)	4000 VDC	100	10 pF	151	150 pF	101	100 pF	681	680 pF
	E/B	.025 ±.015	(0.64±.38)	5000 VDC	100	10 pF	101	100 pF	101	100 pF	331	330 pF
H47 / 2520				500 VDC	100	10 pF	223	.022 µF	473	.047 µF	224	.220 µF
				1000 VDC	100	10 pF	332	3300 pF	102	1000 pF	683	.068 µF
	L	.225 ±.023	(5.72 ±.57)	2000 VDC	100	10 pF	152	1500 pF	102	1000 pF	153	.015 µF
	W	.200 ±.020	(5.08 ±.51)	3000 VDC	100	10 pF	681	680 pF	471	470 pF	682	6800 pF
	T	.150 Max.	(3.81)	4000 VDC	100	10 pF	331	330 pF	101	100 pF	222	2200 pF
	E/B	.025 ±.015	(0.64±.38)	5000 VDC	100	10 pF	221	220 pF	101	100 pF	102	1000 pF
H51 / 3530				500 VDC	100	10 pF	563	.056 µF	102	1000 pF	474	.470 µF
				1000 VDC	100	10 pF	472	4700 pF	102	1000 pF	394	.390 µF
	L	.350 ±.035	(8.89 ±.89)	2000 VDC	100	10 pF	332	3300 pF	471	470 pF	473	.047 µF
	W	.300 ±.030	(7.62 ±.76)	3000 VDC	100	10 pF	152	1500 pF	471	470 pF	333	.033 µF
	T	.150 Max.	(3.81)	4000 VDC	100	10 pF	102	1000 pF	471	470 pF	103	.010 µF
	E/B	.025 ±.015	(0.64±.38)	5000 VDC	100	10 pF	471	470 pF	101	100 pF	682	6800 pF
H54 / 3640				500 VDC	100	10 pF	683	.068 µF	102	1000 pF	155	1.50 µF
				1000 VDC	100	10 pF	822	8200 pF	102	1000 pF	474	.470 µF
	L	.360 ± .030	(9.14 ± .76)	2000 VDC	100	10 pF	332	3300 pF	471	470 pF	683	.068 µF
	W	.400 ± .030	(10.16 ±.76)	3000 VDC	100	10 pF	222	2200 pF	471	470 pF	473	.047 µF
	T	.150 Max.	(3.81)	4000 VDC	100	10 pF	152	1500 pF	471	470 pF	153	.015 µF
	E/B	.025 ±.015	(0.64±.38)	5000 VDC	100	10 pF	681	680 pF	101	100 pF	822	8200 pF

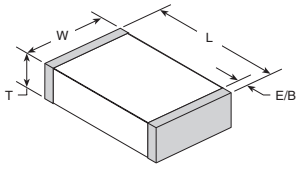
Available capacitance values include the following significant retma values and their multiples:
1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 (1.0 = 1.0, 10, 100, 1000, etc.)
Consult factory for non-retma values and other tooled sizes such as 3327 & 4020

SPECIAL SIZE (1515 - 3640) CHIP CAPACITORS 50 - 250 VDC

CAPACITANCE SELECTION 50 -250 VDC

		INCHES	(mm)	RATED VOLTAGE	NPO DIELECTRIC MIN.		NPO DIELECTRIC MAX.		X7R DIELECTRIC MIN.		X7R DIELECTRIC MAX.	
S49/1825	L	.180 ±.010	(4.57 ±.25)	50/63 VDC	102	1000 pF	473	.047 µF	102	1000 pF	185	1.80 µF
	W	.250 ±.010	(6.35 ±.25)	100 VDC	100	10 pF	393	.039 µF	102	1000 pF	125	1.25 µF
	T	.110 Max.	(2.80)	200/250 VDC	100	10 pF	273	.027 µF	471	470 pF	684	0.68 µF
	E/B	.025 ±.015	(0.64±.38)									
S47/2220	L	.225 ±.023	(5.72 ±.57)	50/63 VDC	102	1000 pF	683	.068 µF	103	.010 µF	185	1.80 µF
	W	.200 ±.020	(5.08 ±.51)	100 VDC	102	1000 pF	473	.047 µF	103	.010 µF	125	1.20 µF
	T	.150 Max.	(3.81)	200/250 VDC	102	1000 pF	333	.033 µF	103	.010 µF	824	0.82 µF
	E/B	.025 ±.015	(0.64±.38)									
S48/2225	L	.225 ±.010	(5.72 ±.25)	50/63 VDC	102	1000 pF	753	.075 µF	103	.010 µF	225	2.20 µF
	W	.250 ±.010	(6.35 ±.25)	100 VDC	102	1000 pF	563	.056 µF	103	.010 µF	155	1.50 µF
	T	.110 Max.	(2.80)	200/250 VDC	102	1000 pF	393	.039 µF	103	.010 µF	105	1.00 µF
	E/B	.025 ±.015	(0.64±.38)									
H51/3530	L	.350 ±.035	(8.89 ±.89)	50/63 VDC	102	1000 pF	124	0.12 µF	103	.010 µF	475	4.70 µF
	W	.300 ±.030	(7.62 ±.76)	100 VDC	102	1000 pF	104	0.10 µF	103	.010 µF	275	2.70 µF
	T	.150 Max.	(3.81)	200/250 VDC	102	1000 pF	823	.082 µF	103	.010 µF	225	2.20 µF
	E/B	.025 ±.015	(0.64±.38)									
H54/3640	L	.360 ± .030	(9.14 ± .76)	50/63 VDC	102	1000 pF	184	0.18 µF	103	.010 µF	475	4.70 µF
	W	.400 ± .030	(10.2 ±.76)	100 VDC	102	1000 pF	124	0.12 µF	103	.010 µF	335	3.30 µF
	T	.150 Max.	(3.81)	200/250 VDC	102	1000 pF	104	0.10 µF	103	.010 µF	225	2.20 µF
	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 other size / value / voltage combinations.



ELECTRICAL CHARACTERISTICS

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

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

NOTE: Circuit applications in excess of 1000 VDC may require surface coating to prevent external arcing.

HOW TO ORDER

630	H51	W	475	M	Y	4	
VOLTAGE	CASE SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION		TAPE MODIFIER

VOLTAGE
500 = 500 V
630 = 630 V
101 = 100 V
201 = 200 V
251 = 250 V
501 = 500 V
102 = 1000 V
202 = 2000 V
302 = 3000 V
402 = 4000 V
502 = 5000 V

CASE SIZE
See Chart

DIELECTRIC
N = NPO
W = X7R

CAPACITANCE
1st two digits are significant; third digit denotes number of zeros.
101 = 100 pF
102 = 1000 pF
103 = 0.01 µF
105 = 1.00 µF

TOLERANCE
J = ± 10%
K = ± 10%
M = ± 20%
Z = +80% -20%

TERMINATION
V = Ni barrier w/ 100% Sn Plating
Y = Palladium-Silver

MARKING
4 = Unmarked
3 = Specified
6 = EIA "J" Code*

TAPE MODIFIER
E = 7" Reel Taped
H = High Rel Testing (Customer Specified)
S = Special Part

Part number written: 630H51W475KY4