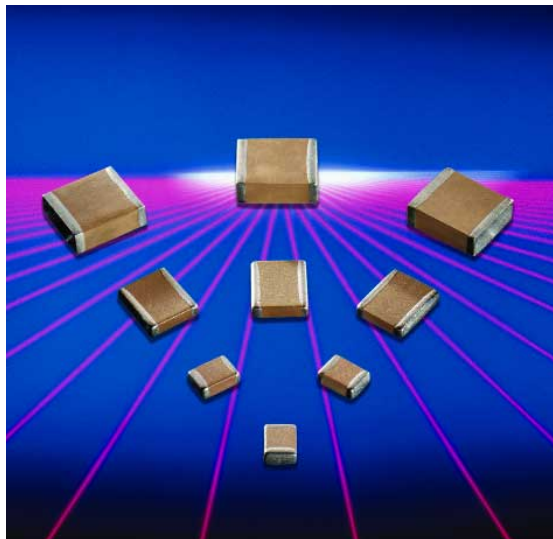


SPECIAL SIZE (1515 - 3640) CHIP CAPACITORS 500 - 5,000 VDC



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

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

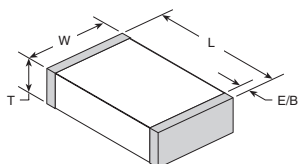
CAPACITANCE SELECTION 50 -250 VDC

				RATED VOLTAGE	NPO DIELECTRIC				X7R DIELECTRIC			
					MIN.		MAX.		MIN.		MAX.	
S49/1825 	L	.180 ±.010	(4.57 ±.25)	50/63 VDC 100 VDC 200/250 VDC	102	1000 pF	473	.047 µF	102	1000 pF	185	1.80 µF
	W	.250 ±.010	(6.35 ±.25)		100	10 pF	393	.039 µF	102	1000 pF	125	1.25 µF
	T	.110 Max.	(2.80)		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 100 VDC 200/250 VDC	102	1000 pF	683	.068 µF	103	.010 µF	185	1.80 µF
	W	.200 ±.020	(5.08 ±.51)		102	1000 pF	473	.047 µF	103	.010 µF	125	1.20 µF
	T	.150 Max.	(3.81)		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 100 VDC 200/250 VDC	102	1000 pF	753	.075 µF	103	.010 µF	225	2.20 µF
	W	.250 ±.010	(6.35 ±.25)		102	1000 pF	563	.056 µF	103	.010 µF	155	1.50 µF
	T	.110 Max.	(2.80)		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 100 VDC 200/250 VDC	102	1000 pF	124	0.12 µF	103	.010 µF	475	4.70 µF
	W	.300 ±.030	(7.62 ±.76)		102	1000 pF	104	0.10 µF	103	.010 µF	275	2.70 µF
	T	.150 Max.	(3.81)		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 100 VDC 200/250 VDC	102	1000 pF	184	0.18 µF	103	.010 µF	475	4.70 µF
	W	.400 ±.030	(10.2 ±.76)		102	1000 pF	124	0.12 µF	103	.010 µF	335	3.30 µF
	T	.150 Max.	(3.81)		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 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

