

CERAMIC STACKED CAPACITORS

X7R AND NPO MAXIMUM CAPACITANCE (µF)

Many other case sizes available.
Please contact factory.

Most popular sizes
shown in yellow

Ex: HRS208X7R245K2J2
(2.4µF, 50V, .220" total height)

PRESIDIO CASE SIZE CODE																				"B" Ht. Max. inch (mm)	No. of Chips per Stack
Case Code	08		17		32		36		16		01		47		42		21		06		
Dielectric	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	
25V (Voltage Code=1)	1.4	.036	1.8	.045	2.0	.050	2.0	.050	2.3	.060	2.5	.065	3.0	.080	3.0	.080	3.9	.10	5.0	.13	
	2.8	.072	3.6	.090	4.0	.10	4.0	.10	4.6	.12	5.0	.13	6.0	.16	6.0	.16	7.8	.20	10	.26	
	4.2	.11	5.4	.13	6.0	.15	6.0	.15	6.9	.18	7.5	.19	9.0	.24	9.0	.24	11	.30	15	.39	
	—	—	7.2	.18	—	—	—	—	9.2	.24	10	.26	12	.32	12	—	15	.40	20	.52	
	—	—	9.0	.22	—	—	—	—	11	.30	12	.32	15	.40	15	—	19	.50	25	.65	
50V (Voltage Code=2)	—	—	11	.27	—	—	—	—	14	.36	15	.39	18	.48	18	—	23	.60	30	.78	
	1.2	.030	1.5	.040	1.7	.040	1.7	.040	1.9	.050	2.1	.055	2.7	.070	2.7	.070	3.3	.080	4.5	.11	
	2.4	.060	3.0	.080	3.4	.080	3.4	.080	3.8	.10	4.2	.11	5.4	.14	5.4	.14	6.6	.16	9.0	.22	
	3.6	.090	4.5	.12	5.1	.12	5.1	.12	5.7	.15	6.3	.16	8.1	.21	8.1	.21	10	.24	13	.33	
	—	—	6.0	.16	—	—	—	—	7.6	.20	8.4	.22	10	.28	10	—	13	.32	18	.44	
75V See Note 2	—	—	7.5	.20	—	—	—	—	9.5	.25	10	.27	13	.35	13	—	16	.40	22	.55	
	—	—	—	—	—	—	—	—	11	.30	12	.33	16	.42	16	—	19	.48	27	.66	
	.75	.020	1.0	.025	1.1	.030	1.1	.030	1.2	.035	1.4	.040	1.8	.050	1.8	.050	2.2	.060	3.0	.080	
	1.5	.040	2.0	.050	2.2	.060	2.2	.060	2.4	.070	2.8	.080	3.6	.10	3.6	.10	4.4	.12	6.0	.16	
	—	—	3.0	.075	—	—	—	—	3.6	.10	4.2	.12	5.4	.15	5.4	—	6.6	.18	9.0	.24	
100V (Voltage Code=3)	—	—	4.0	.10	—	—	—	—	4.8	.14	5.6	.16	7.2	.20	7.2	—	8.8	.24	12	.32	
	—	—	—	—	—	—	—	—	6.0	.17	7.0	.20	9.0	.25	9.0	—	11	.30	15	.40	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	0.22	.012	0.3	.016	.36	.018	.36	.018	.39	.020	0.42	.022	.60	.027	.60	.030	.70	.036	1.0	.047	
	0.44	.024	0.6	.032	.72	.036	.72	.036	.78	.040	0.84	.044	1.2	.054	1.2	.060	1.4	.072	2.0	.094	
200V (Voltage Code=4)	—	—	0.9	.048	—	—	—	—	1.1	.060	1.2	.066	1.8	.071	1.8	—	2.1	.11	3.0	.14	
	—	—	1.2	.064	—	—	—	—	1.5	.080	1.7	.088	2.4	.11	2.4	—	2.8	.14	4.0	.19	
	—	—	—	—	—	—	—	—	1.9	.10	2.1	.11	3.0	.13	3.0	—	3.5	.18	5.0	2.3	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	0.11	.0060	0.14	.0075	.15	.0080	.15	.0080	0.18	.010	0.19	.011	.25	.013	.25	.013	.30	.016	.42	.022	
500V (Voltage Code=6)	0.22	.012	0.28	.015	.30	.016	.30	.016	0.36	.020	0.38	.022	.50	.026	.50	.026	.60	.032	.84	.044	
	—	—	0.42	.022	—	—	—	—	0.54	.030	0.57	.033	.75	.039	.75	—	.90	.048	1.2	.066	
	—	—	0.56	.030	—	—	—	—	0.72	.040	0.76	.044	1.0	.052	1.0	—	1.2	.064	1.6	.088	
	—	—	—	—	—	—	—	—	0.90	.050	0.95	.055	1.2	.065	1.2	—	1.5	.080	2.1	.11	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dimensions inches (mm)	.215 (5.46)	.185 (4.70)	.300 (7.62)	.355 (9.02)	.235 (5.97)	.275 (6.99)	.310 (7.87)	.400 (10.16)	.300 (7.62)	.375 (9.53)	C ± .025 (0.64)										
	.215 (5.46)	.275 (6.99)	.180 (4.57)	.150 (3.81)	.275 (6.99)	.275 (6.99)	.270 (6.86)	.220 (5.59)	.330 (8.38)	.375 (9.53)	D (Max) Width										
	.240 (6.10)	.210 (5.33)	.325 (8.26)	.380 (9.65)	.260 (6.60)	.300 (7.62)	.335 (8.51)	.425 (10.80)	.325 (8.26)	.400 (10.16)	E (Max) Length										
Leads per Side	2	3	2	2	3	3	3	2	3	4	Height dimensions based on commonly ordered parts. Optimized heights available.										
Chip Size	2018	1725	2917	3415	2225	2627	3026	3920	2832	3736											

Presidio's most popular sizes are highlighted. Choose these for best price, delivery and availability.

Notes:

- "B" height dimensions are based on commonly ordered parts. Optimized heights are available.
- 75V parts are also available. Capacitance values of 75V parts are half-way between 50V and 100V parts.
Lower, intermediate and higher voltages available (i.e. 16V, 150V, 300V, 600V, etc.)
- Vertical stacks are sometimes useful for reducing the footprint; for availability, consult factory.
- Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ), and voltage ratings are available. Consult factory.

HOW TO ORDER OUR CERAMIC STACKED CAPACITORS

HR	S	5	01	X7R	106	K	2	J	3
Optional Screening Code	Configuration	No. of Chips	Case Code	Dielectric Type	Capacitance Code	Capacitance Tolerance *	Voltage Code	Lead Frame Style	No. of Leads
Leave Blank for Commercial HR SR (See pg. 7)	Stacked Capacitor Assembly	Number of Chips per Stack	See Above	X7R NPO N2T	Capacitance (in picofarads): Two significant figures followed by the number of zeros. Examples: 103=10,000 pF=0.01 µF 106=10,000,000 pF=10 µF	F = ± 1% (NPO only) G = ± 2% (NPO only) J = ± 5% (NPO only) K = ± 10% M = ± 20% Z = -20% /+80%	1 = 25V 2 = 50V 3 = 100V 4 = 200V 6 = 500V	J = Leads formed under G = Leads formed out N = Through-hole S = See pages 12 & 13	Number of Leads per Side (See Above)

NOTE: Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ),
and voltage ratings are available. Consult factory.

* Unless otherwise specified.
Customer SCD takes precedence.



PRESIDIO COMPONENTS, INC.

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CERAMIC STACKED CAPACITORS

X7R AND NPO

MAXIMUM CAPACITANCE (μF)

Many other case sizes available.
Please contact factory.

Ex: HRS205NP0324K1J4
(.32μF, 25V, .200" total height)

PRESIDIO CASE SIZE CODE																			"B" Ht. Max. inch (mm)	No. of Chips per Stack
Case Code	02		03		07		37		05		04		48		44		13			
Dielectric	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO	X7R	NPO		
25V (Voltage Code=1)	5.6	.14	6.0	.15	6.5	.17	6.5	.17	7.0	.16	8.0	.20	8.0	.20	13	.33	20	.50	.150 (3.81)	1
	11	.28	12	.30	13	.34	13	.34	14	.32	16	.40	16	.40	26	.66	40	1.0	.200 (5.08)	2
	17	.42	18	.45	19	.51	19	.51	21	.48	24	.60	24	.60	39	1.0	60	1.5	.275 (6.99)	3
	22	.56	24	.60	26	.68	26	.68	28	.64	32	.80	32	.80	52	1.3	80	2.0	.350 (8.89)	4
	28	.70	30	.75	32	.85	32	.85	35	.80	40	1.0	40	1.0	65	1.6	100	2.5	.425 (10.80)	5
	33	.84	36	.90	39	1.0	39	1.0	42	.96	48	1.2	48	1.2	78	2.0	120	3.0	.500 (12.70)	6
50V (Voltage Code=2)	4.7	.12	5.0	.13	5.6	.14	5.6	.14	5.6	.14	6.8	.17	6.8	.17	10	.27	18	.40	.150 (3.81)	1
	9.4	.24	10	.26	11	.28	11	.28	11	.28	13	.34	13	.34	20	.54	36	.80	.220 (5.59)	2
	14	.36	15	.39	16	.42	16	.42	17	.42	20	.51	20	.51	30	.71	54	1.2	.310 (7.87)	3
	19	.48	20	.52	22	.56	22	.56	22	.56	27	.68	27	.68	40	1.1	72	1.6	.400 (10.16)	4
	23	.60	25	.65	28	.70	28	.70	28	.70	34	.85	34	.85	50	1.3	90	2.0	.490 (12.45)	5
	28	.72	30	.78	33	.84	33	.84	33	.84	41	1.0	41	1.0	60	1.6	110	2.4	.580 (14.73)	6
75 V See Note 2	3.2	.085	3.3	.090	3.7	.10	3.7	.10	4.0	.10	4.5	.12	4.5	.12	7.0	.20	12	.30	.160 (4.06)	1
100V (Voltage Code=3)	6.4	.17	6.6	.18	7.4	.20	7.4	.20	8.0	.20	9.0	.24	9.0	.24	14	.40	24	.60	.280 (7.11)	2
	9.6	.25	10	.27	11	.30	11	.30	12	.30	13	.36	13	.36	21	.60	36	.90	.400 (10.16)	3
	12	.34	13	.36	15	.40	15	.40	16	.40	18	.48	18	.48	28	.80	48	1.2	.520 (13.21)	4
	16	.42	16	.45	18	.50	18	.50	20	.50	22	.60	22	.60	35	1.0	60	1.5	.640 (16.26)	5
	—	—	—	—	—	—	—	—	—	—	—	—	27	.72	42	1.2	72	1.8	.760 (19.30)	6
	—	—	—	—	—	—	—	—	—	—	—	—	9.0	.44	13	.72	21	1.1	.760 (19.30)	6
200V (Voltage Code=4)	1.0	.050	1.0	.050	1.2	.060	1.2	.060	1.2	.056	1.5	.075	1.5	.075	2.2	.12	3.5	.18	.160 (4.06)	1
	2.0	.10	2.0	.10	2.4	.12	2.4	.12	2.4	.11	3.0	.15	3.0	.15	4.4	.24	7.0	.36	.280 (7.11)	2
	3.0	.15	3.0	.15	3.6	.18	3.6	.18	3.6	.17	4.5	.22	4.5	.22	6.6	.36	10	.54	.400 (10.16)	3
	4.0	.20	4.0	.20	4.8	.24	4.8	.24	4.8	.22	6.0	.30	6.0	.30	8.8	.48	14	.72	.520 (13.21)	4
	5.0	.25	5.0	.25	6.0	.30	6.0	.30	6.0	.28	7.5	.37	7.5	.37	11	.60	17	.90	.640 (16.26)	5
	—	—	—	—	—	—	—	—	—	—	—	—	9.0	.44	13	.72	21	1.1	.760 (19.30)	6
500V (Voltage Code=6)	.44	.024	.46	.025	.50	.027	.50	.027	0.55	.028	.60	.035	.60	.035	1.0	.056	1.6	.080	.160 (4.06)	1
	.88	.048	.92	.050	1.0	.054	1.0	.054	1.1	.056	1.2	.070	1.2	.070	2.0	.11	3.2	.16	.280 (7.11)	2
	1.3	.072	1.3	.075	1.5	.071	1.5	.071	1.6	.084	1.8	.10	1.8	.10	3.0	.16	4.8	.24	.400 (10.16)	3
	1.7	.096	1.8	.10	2.0	.11	2.0	.11	2.2	.11	2.4	.14	2.4	.14	4.0	.22	6.4	.32	.520 (13.21)	4
	2.2	.12	2.3	.12	2.5	.13	2.5	.13	2.7	.14	3.0	.17	3.0	.17	5.0	.28	8.0	.40	.640 (16.26)	5
	—	—	—	—	—	—	—	—	—	—	—	—	3.6	.21	6.0	.33	9.6	.48	.760 (19.30)	6
Dimensions inches (mm)	.350 (8.89)		.415 (10.54)		.375 (9.53)		.550 (13.97)		.400 (10.16)		.475 (12.07)		.400 (10.16)		.375 (9.53)		.450 (11.43)		C ± .025 (0.64)	
	.400 (10.16)		.385 (9.78)		.425 (10.80)		.310 (7.87)		.425 (10.80)		.420 (10.67)		.500 (12.70)		.825 (20.96)		1.075 (27.31)		D (Max) Width	
	.375 (9.53)		.440 (11.18)		.400 (10.16)		.575 (14.61)		.440 (11.18)		.500 (12.70)		.425 (10.80)		.400 (10.16)		.500 (12.70)		E (Max) Length	
Leads per Side	4		4		4		3		4		4		5		8		10		Height dimensions based on commonly ordered parts. Optimized heights available.	
Chip Size	3439		4036		3640		5330		3941		4540		3949		3680		4399			

Presidio's most popular sizes are highlighted. Choose these for best price, delivery and availability.

Notes:

- "B" height dimensions are based on commonly ordered parts. Optimized heights are available.
- 75V parts are also available. Capacitance values of 75V parts are half-way between 50V and 100V parts. Lower, intermediate and higher voltages available (i.e. 16V, 150V, 300V, 600V, etc).
- Vertical stacks are sometimes useful for reducing the footprint; for availability, consult factory.
- Other sizes, capacitances, lead frames, dielectrics (BP, PX, BR, BQ), and voltage ratings are available. Consult factory.

Ex: HRS513X7R805K6G10
(8μF, 500V, .640" total height)

HOW TO ORDER OUR CERAMIC STACKED CAPACITORS

HR	S	4	05	X7R	226	K	2	J	4
Optional Screening Code	Configuration	No. of Chips	Case Code	Dielectric Type	Capacitance Code	Capacitance Tolerance *	Voltage Code	Lead Frame Style	No. of Leads
Leave Blank for Commercial HR SR (See pg. 7)	Stacked Capacitor Assembly	Number of Chips per Stack	See Above	X7R NPO N2T	Capacitance (in picofarads): Two significant figures followed by the number of zeros. Examples: 103=10,000 pF=.01 μF 226=22,000,000 pF=22 μF	F = ± 1% (NPO only) G = ± 2% (NPO only) J = ± 5% (NPO only) K = ± 10% M = ± 20% Z = -20% /+80%	1 = 25V 2 = 50V 3 = 100V 4 = 200V 6 = 500V	J = Leads formed under G = Leads formed out N = Through-hole S = See pages 12 & 13	Number of Leads per Side (See Above)

NOTE: Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ), and voltage ratings are available. Consult factory.

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