

Panasonic® V-Series ±5% Stacked Metallized Film Capacitors

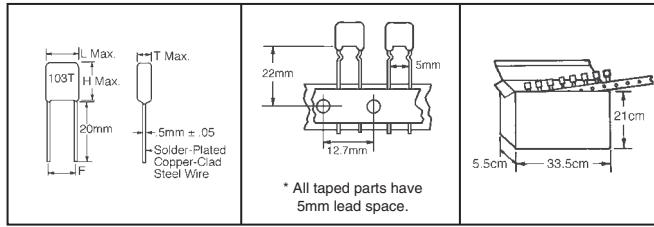
Suitable for Replacement of Monolithic Ceramic Capacitors in Most Cases

FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: -40°C - 85°C • Temperature coefficientΔc/c: 200 ppm • Dissipation factor (maximum): 1.0% • Insulation resistance (25°C): 1000MΩ μF • Self-healing

APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF** Thompson: IRD
Siemens: B32509.

(To convert millimeters to inches divide by 25.4)



• Panasonic V-Series Stacked Metallized Film Capacitors
Digi-Key® V-Series Capacitors Kit

P4542-KIT-ND* (50 Volt K) \$49.95
 P4700-KIT-ND† (100 Volt K) \$49.95

Includes 10 each of those parts indicated below (* or †). 100 capacitors. 10 each of the values listed in the chart. Price includes a notebook style storage box with bin guide for easy storage and quick access.

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Working Voltage	Cap. μF	Dimensions (mm)				Digi-Key Part No.	Pricing				Panasonic Part No.	
		L	T	H	F		10	100	1,000	5,000		10,000
Bulk Package												
50	0.01	7.3	3.2	5.0	5.0	P4513-ND♦	.95	7.90	47.00	44.00/M	41.00/M	ECQ-V1H103JL
	0.012	7.3	3.2	5.0	5.0	P4514-ND♦	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H123JL
	0.015	7.3	3.2	5.0	5.0	P4515-ND♦	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H153JL
	0.018	7.3	3.2	5.0	5.0	P4516-ND♦	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517-ND♦	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H223JL
	0.027	7.3	3.2	5.0	5.0	P4518-ND♦	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1H273JL
	0.033	7.3	3.2	5.0	5.0	P4519-ND♦	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520-ND♦	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1H393JL
	0.047	7.3	3.2	5.0	5.0	P4521-ND♦	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522-ND♦	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H563JL
	0.068	7.3	3.2	5.0	5.0	P4523-ND♦	1.04	8.70	52.00	48.00/M	45.00/M	ECQ-V1H683JL
	0.082	7.3	3.6	5.0	5.0	P4524-ND♦	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H823JL
	0.1	7.3	4.0	5.0	5.0	P4525-ND♦	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H104JL
	0.12	7.3	4.0	5.0	5.0	P4526-ND♦	1.14	9.53	57.00	53.00/M	49.00/M	ECQ-V1H124JL
	0.15	10.2	3.4	9.0	7.5	P4538-ND	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154JL
	0.15	7.3	4.4	5.5	5.0	P4665-ND♦	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H154JL
	0.18	7.3	4.5	5.5	5.0	P4666-ND♦	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H184JL
	0.22	7.3	4.8	5.5	5.0	P4667-ND♦	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H224JL
	0.27	7.3	4.6	7.0	5.0	P4668-ND♦	1.41	11.78	70.00	65.00/M	61.00/M	ECQ-V1H274JL
	0.33	7.3	5.2	7.0	5.0	P4669-ND♦	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-V1H334JL
0.39	7.3	5.7	7.3	5.0	P4670-ND♦	1.65	13.73	82.00	76.00/M	71.00/M	ECQ-V1H394JL	
0.47	7.3	6.0	7.3	5.0	P4671-ND♦	1.82	15.13	90.00	84.00/M	79.00/M	ECQ-V1H474JL	
0.56	7.3	5.8	10.0	5.0	P4672-ND♦	2.15	17.93	107.00	100.00/M	93.00/M	ECQ-V1H564JL	
0.68	7.3	6.5	10.0	5.0	P4673-ND♦	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H684JL	
0.82	7.3	6.8	10.0	5.0	P4674-ND♦	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H824JL	
1.0	7.3	8.0	11.0	5.0	P4675-ND♦	3.86	32.20	192.00	179.00/M	167.00/M	ECQ-V1H105JL	
0.18	10.2	3.5	9.0	7.5	P4539-ND♦	1.23	10.25	61.00	57.00/M	53.00/M	ECQ-V1J184JM	
0.22	10.2	3.5	9.0	7.5	P4540-ND♦	1.33	11.05	66.00	61.00/M	57.00/M	ECQ-V1J224JM	
0.27	10.2	3.5	9.0	7.5	P4541-ND♦	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-V1J274JM	
0.33	10.2	3.8	9.0	7.5	P4549-ND♦	1.49	12.43	74.00	69.00/M	65.00/M	ECQ-V1J334JM	
0.39	10.2	4.0	9.0	7.5	P4543-ND♦	1.63	13.55	81.00	75.00/M	70.00/M	ECQ-V1J394JM	
0.47	10.2	4.5	9.0	7.5	P4544-ND♦	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1J474JM	
0.56	10.2	4.9	9.0	7.5	P4545-ND♦	2.12	17.70	106.00	98.00/M	92.00/M	ECQ-V1J564JM	
0.68	10.2	5.5	10.0	7.5	P4546-ND♦	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J684JM	
0.82	10.2	6.1	10.0	7.5	P4547-ND♦	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J824JM	
1.0	10.2	6.9	10.0	7.5	P4548-ND♦	3.81	31.75	190.00	176.00/M	165.00/M	ECQ-V1J105JM	
0.01	7.3	3.2	7.0	5.0	P4713-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1103JM	
0.012	7.3	3.2	7.0	5.0	P4714-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1123JM	
0.015	7.3	3.2	7.0	5.0	P4715-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1153JM	
0.018	7.3	3.2	7.0	5.0	P4716-ND†	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1183JM	
0.022	7.3	3.2	7.0	5.0	P4717-ND†	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1223JM	
0.027	7.3	3.2	7.0	5.0	P4718-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1273JM	
0.033	7.3	3.2	7.0	5.0	P4719-ND†	1.51	12.55	75.00	70.00/M	65.00/M	ECQ-V1333JM	
0.039	7.3	3.2	7.0	5.0	P4720-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1393JM	
0.047	7.3	4.0	7.0	5.0	P4721-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1473JM	
0.056	7.3	4.2	7.0	5.0	P4722-ND†	1.13	9.45	56.00	52.00/M	49.00/M	ECQ-V1563JM	
0.068	7.3	4.5	7.0	5.0	P4723-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1683JM	
0.082	7.3	5.0	7.0	5.0	P4724-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1823JM	
0.1	7.3	5.8	7.0	5.0	P4725-ND†	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1104JM	
0.12	10.0	3.4	9.0	7.5	P4726-ND♦	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1124JM	
0.15	10.0	3.8	9.0	7.5	P4727-ND♦	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1154JM	
0.18	10.0	4.0	9.0	7.5	P4728-ND♦	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1184JM	
0.22	10.0	4.3	9.0	7.5	P4729-ND♦	1.54	12.80	76.00	71.00/M	66.00/M	ECQ-V1224JM	
0.27	10.0	5.2	10.0	7.5	P4730-ND♦	1.64	13.68	82.00	76.00/M	71.00/M	ECQ-V1274JM	
0.33	10.0	5.9	10.0	7.5	P4731-ND♦	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1334JM	
0.39	10.0	7.5	11.0	7.5	P4732-ND†	1.97	16.43	98.00	91.00/M	85.00/M	ECQ-V1394JM	
0.47	10.0	8.1	11.0	7.5	P4733-ND†	2.34	19.48	116.00	108.00/M	101.00/M	ECQ-V1474JM	

♦ RoHS Compliant

Working Voltage	Cap. μF	Dimensions (mm)				Digi-Key Part No.	Pricing				Panasonic Part No.		
		L	T	H	F		1,000	2,000	5,000	6,000		10,000	26,000
Ammo Box Package — RoHS Compliant													
50	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	57.00/M	—	53.00/M	49.00/M	46.00/M	ECQ-V1H103JL3
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H123JL3
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H153JL3
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H183JL3
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	44.00/M	—	41.00/M	38.00/M	36.00/M	ECQ-V1H223JL3
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	64.00/M	—	59.00/M	55.00/M	52.00/M	ECQ-V1H273JL3
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	67.00/M	—	62.00/M	58.00/M	55.00/M	ECQ-V1H333JL3
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	69.00/M	—	64.00/M	60.00/M	56.00/M	ECQ-V1H393JL3
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H473JL3
	0.056	7.3	3.2	5.0	5.0	P4522TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H563JL3
	0.068	7.3	3.9	7.0	5.0	P4523TB-ND	—	52.00/M	—	48.00/M	45.00/M	42.00/M	ECQ-V1H683JL3
	0.082	7.3	4.1	7.0	5.0	P4524TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H823JL3
	0.1	7.3	4.4	7.0	5.0	P4525TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H104JL3
	0.12	10.0	3.4	9.0	7.5	P4526TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H124JL3
	0.15	10.0	3.4	9.0	5.0	P4527TB-ND	59.00	—	54.00/M	—	51.00/M	—	ECQ-V1H154JL3
	0.18	10.0	3.5	9.0	5.0	P4528TB-ND	62.00	—	58.00/M	—	54.00/M	—	ECQ-V1H184JL3
	0.22	10.0	3.7	9.0	5.0	P4529TB-ND	67.00	—	62.00/M	—	58.00/M	—	ECQ-V1H224JL3
	0.27	10.0	4.0	9.0	5.0	P4530TB-ND	70.00	—	65.00/M	—	61.00/M	—	ECQ-V1H274JL3
	0.33	10.0	4.2	9.0	5.0	P4531TB-ND	75.00	—	70.00/M	—	65.00/M	—	ECQ-V1H334JL3
	0.39	10.0	4.9	9.0	5.0	P4532TB-ND	82.00	—	76.00/M	—	71.00/M	—	ECQ-V1H394JL3
0.47	10.0	5.5	10.0	5.0	P4533TB-ND	90.00	—	84.00/M	—	79.00/M	—	ECQ-V1H474JL3	
0.56	10.0	6.1	10.0	5.0	P4534TB-ND	107.00	—	100.00/M	—	93.00/M	—	ECQ-V1H564JL3	
0.68	10.0												