

Panasonic® M-Series Polyester and Foil Capacitors

Features:

High insulation resistance. Non-inductive construction; with tinned copper leads welded to the foils. High peak current capability. Solvent-resistant resin coated body.

Applications:

Blocking, by-pass and coupling of D.C. and signals to VHF range. Pulse, logic and timing circuits. Light-duty pulse forming networks. Filter and noise suppression circuits. General purpose usage.

Specifications:

Reference standard: JIS C5113 Characteristic M. Operating temperature range: -40°C ~ 85°C Construction: Polyester film, non-inductive, phenolic/epoxy resin coating, wax impregnation.

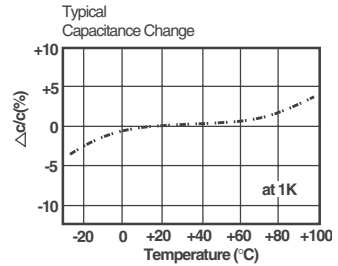
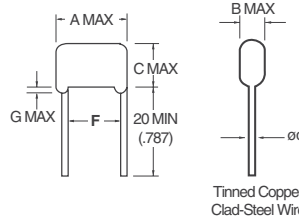
Electrical Specifications:

Capacitance Tolerance: ±10% (K). Insulation Resistance: Greater than 10,000 mΩ. Dissipation Factor: Less than 1.0% at 1 KHZ. Dielectric Withstanding Voltage: 250% of rated voltage for 5 seconds. Operating Temperature: -40°C ~ 80°C.

PANASONIC ECQ CROSS REFERENCE

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TWR:** 601PE, 601CPE; **Pactron:** PE, FM; **Secor:** MFDN, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1808; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissiel:** AMZ, AMX, AMR, AMM.

Style: Straight Radial Leads



F

Cap. μ F	Dimensions (mm)					Digi-Key Part No.	Pricing				Panasonic Part No.	
	A	B	C	F \pm 1.25	G		10	100	1,000	5,000		10,000
200 WV DC												
.001	9.0	5.0	9.0	5.5	2	P1029-ND	1.64	13.70	82.00	76.00/M	71.00/M	ECQ-M2102KZ
.0012	9.0	5.0	9.0	5.5	2	P1030-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2122KZ
.0015	9.0	5.0	9.5	5.5	3	P1031-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2152KZ
.0018	9.0	5.5	9.5	5.5	3	P1032-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2182KZ
.0022	9.0	6.0	10.0	5.5	3	P1033-ND	1.37	11.40	68.00	63.00/M	59.00/M	ECQ-M2222KZ
.0027	9.0	5.0	9.0	5.5	3	P1034-ND	1.45	12.08	72.00	67.00/M	63.00/M	ECQ-M2272KZ
.0033	9.0	5.0	9.0	5.5	3	P1035-ND	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-M2332KZ
.0039	12.0	5.5	9.5	7.5	3	P1036-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2392KZ
.0047	12.0	6.0	9.5	7.5	3	P1037-ND	1.45	12.05	72.00	67.00/M	63.00/M	ECQ-M2472KZ
.0056	12.0	6.0	9.5	7.5	3	P1038-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2562KZ
.0068	12.0	6.0	10.5	7.5	3	P1039-ND	1.38	11.48	69.00	64.00/M	60.00/M	ECQ-M2682KZ
.0082	14.0	5.5	10.0	9.5	3	P1040-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2822KZ
.01	14.0	6.0	10.0	9.5	3	P1041-ND	1.57	13.08	78.00	73.00/M	68.00/M	ECQ-M2103KZ
.012	14.0	6.0	10.5	9.5	3	P1042-ND	1.58	13.13	78.00	73.00/M	68.00/M	ECQ-M2123KZ
.015	14.0	6.5	11.5	9.5	3	P1043-ND	1.42	11.85	71.00	66.00/M	62.00/M	ECQ-M2153KZ
.018	17.0	5.5	10.0	12.5	3	P1044-ND	1.72	14.35	86.00	80.00/M	75.00/M	ECQ-M2183KZ
.022	17.0	5.5	11.0	12.5	3	P1045-ND	1.75	14.60	87.00	81.00/M	76.00/M	ECQ-M2223KZ
.027	17.0	6.0	11.0	12.5	3	P1046-ND	1.59	13.28	79.00	74.00/M	69.00/M	ECQ-M2273KZ
.033	17.0	6.5	11.5	12.5	3	P1047-ND	1.70	14.13	84.00	78.00/M	73.00/M	ECQ-M2333KZ
.039	17.0	6.0	13.5	12.5	3	P1048-ND	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2393KZ
.047	17.0	6.5	14.0	12.5	3	P1049-ND	1.80	15.03	90.00	83.00/M	78.00/M	ECQ-M2473KZ
.056	20.0	6.5	14.0	14.5	3	P1050-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-M2563KZ
.068	20.0	7.0	14.5	14.5	3	P1051-ND	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2683KZ
.082	20.0	7.5	15.0	15.0	3	P1052-ND	2.08	17.30	103.00	96.00/M	90.00/M	ECQ-M2823KZ
.1	20.0	8.0	17.0	15.0	3	P1053-ND	2.88	24.00	143.00	133.00/M	125.00/M	ECQ-M2104KZ

• RoHS Compliant

Cap. μ F	Dimensions (mm)					Digi-Key Part No.	Pricing				Panasonic Part No.	
	A	B	C	F \pm 1.25	G		10	100	1,000	5,000		10,000
.12	20.0	8.5	17.5	15.0	3	P1054-ND	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M2124KZ
.15	20.0	9.5	18.5	15.0	3	P1055-ND	2.91	24.25	145.00	135.00/M	126.00/M	ECQ-M2154KZ
.18	23.0	13.0	22.0	18.5	3	P1056-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2184KZ
.22	23.0	14.0	23.0	18.5	3	P1057-ND	4.32	36.00	215.00	200.00/M	187.00/M	ECQ-M2224KZ
400 WV DC												
.001	11.0	5.5	9.5	6.5	2	P1058-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4102KZ
.0012	11.0	6.0	10.0	6.5	2	P1059-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4122KZ
.0015	11.0	6.0	10.0	6.5	2	P1060-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4152KZ
.0018	11.0	6.0	10.0	6.5	2	P1061-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4182KZ
.0022	11.0	6.5	10.5	6.5	2	P1062-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4222KZ
.0027	12.0	6.0	10.0	7.5	2	P1063-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4272KZ
.0033	12.0	6.5	10.5	7.5	2	P1064-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4332KZ
.0039	12.0	6.5	10.5	7.5	2	P1065-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4392KZ
.0047	14.0	6.0	10.0	9.5	2	P1066-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4472KZ
.0056	14.0	6.0	10.0	9.5	2	P1067-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4562KZ
.0068	14.0	6.5	10.5	9.5	3	P1068-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4682KZ
.0082	14.0	6.5	12.0	9.5	3	P1069-ND	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4822KZ
.01	14.0	7.0	12.5	9.5	3	P1070-ND	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4103KZ
.012	17.0	6.0	12.0	12.5	3	P1071-ND	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4123KZ
.015	17.0	6.5	12.5	12.5	3	P1072-ND	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4153KZ
.018	17.0	7.0	13.0	12.5	3	P1073-ND	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4183KZ
.022	17.0	7.5	13.5	12.5	3	P1074-ND	1.64	13.65	81.00	76.00/M	71.00/M	ECQ-M4223KZ
.027	20.0	7.0	14.5	15.0	2	P1075-ND	1.79	14.90	89.00	83.00/M	77.00/M	ECQ-M4273KZ
.033	20.0	7.5	15.0	15.0	2	P1076-ND	1.90	15.85	95.00	88.00/M	82.00/M	ECQ-M4333KZ
.039	20.0	8.5	16.0	15.0	3	P1077-ND	2.02	16.80	100.00	93.00/M	87.00/M	ECQ-M4393KZ
.047	20.0	9.0	16.5	15.0	3	P1078-ND	2.17	18.08	108.00	100.00/M	94.00/M	ECQ-M4473KZ
.056	23.0	8.5	15.5	18.0	3	P1079-ND	2.35	19.58	117.00	109.00/M	102.00/M	ECQ-M4563KZ
.068	23.0	9.0	16.5	18.0	3	P1080-ND	2.66	22.18	132.00	123.00/M	115.00/M	ECQ-M4683KZ
.082	24.0	9.5	17.0	18.0	3	P1081-ND	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M4823KZ
.1	24.0	10.0	19.0	18.0	3	P1082-ND	3.31	27.55	164.00	153.00/M	143.00/M	ECQ-M4104KZ

Panasonic® Metallized Polyester Capacitors – ECQE(C) Type

Features:

• Box-type construction (case meets UL94V-0 flame classification, meets requirements of IEC950)
• Operating temperature range: -25°C ~ 85°C (105°C) (*Requires voltage, current and pulse current derating)

Application:

• Interference suppressor for active circuits

Electrical Specifications:

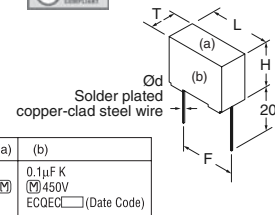
• Rated Voltage: 450VDC

• Capacitance Tolerance: ±10%

• Withstand Voltage: Between Terminals: 1 minute at 150% of rated voltage (The capacitor shall be applied the voltage through a resistor of 2k Ω or more when charged and discharged.) Between Terminal s connected together and case: 1-5 seconds at 200% of rated voltage

• Insulation Resistance Between Terminals: 9,000 M Ω or more (when C \geq 0.33 μ F) 3,000 M Ω / μ F or more (when C<0.33 μ F) at 100VDC \pm 15V for 60 \pm 5 seconds, at 20°C

• Dissipation Factor: 1.0% or less (measured at a frequency of 1 \pm 0.2KHz, at 20°C)



WV DC	Cap. μ F	Tolerance	Dimensions (mm)					Digi-Key Part No.	Price Each				Panasonic Part No.
			L	T	H	F	d		1	10	100	1,000	
450	.10	10%	18.5	5.5	14.5	15.0	0.6	P10755-ND	.62	.53	.44	.27	ECQ-E2W104KC
	.15	10%	18.5	6.0	16.5	15.0	0.6	P10756-ND	.75	.65	.54	.32	ECQ-E2W154KC
	.22	10%	18.5	7.0	18.0	15.0	0.6	P10757-ND	.89	.77	.64	.38	ECQ-E2W224KC
	.33	10%	18.0	9.0	17.5	15.0	0.8	P10758-ND	1.10	.94	.79	.47	ECQ-E2W334KC
	.47	10%	18.0	9.5	17.5	15.0	0.8	P10759-ND	1.30	1.12	.93	.56	ECQ-E2W474KC
	.68	10%	25.5	10.5	20.0	22.5	0.8	P10760-ND	1.77	1.53	1.27	.76	ECQ-E2W684KC
	1.0	10%	25.5	12.5	22.0	22.5	0.8	P10761-ND	2.32	2.00	1.66	1.00	ECQ-E2W105KC
	1.5	10%	25.5	15.5	24.5	22.5	0.8	P10762-ND	3.07	2.64	2.20	1.31	ECQ-E2W155KC
	2.2	10%	31.0	14.0	24.5	27.5	0.8	P10763-ND	4.03	3.45	2.88	1.72	ECQ-E2W225KC

More Product Available Online: www.digkey.com

1726 (T091)

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Panasonic P-Series Polypropylene Capacitors

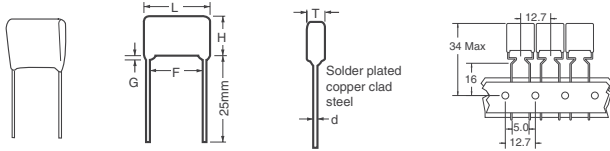
Features: • Wide capacitance range • Close capacitance tolerance • High insulation resistance • Low dissipation factor • Non-inductive construction • Epoxy resin coating

Applications: • Blocking, by-pass and coupling of DC and signal to UHF range • Pulse, logic and timing circuit • Light duty pulse forming network • Filter and noise suppression circuit

Electrical Specifications: • Reference Standard: EIAJ RC-3670A • Temperature Range: -40°C - 85°C • Dissipation Factor:

.1% maximum at 1kHz and 25°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage • Insulation Resistance: 45,000MΩ minimum, for values less than .33μF. 15,000 MΩ/μF minimum, for .33μF and greater. (Measured after a 2-minute charge at rated voltage and 25°C.)

PANASONIC ECO-P CROSS REF.: Sprague: 715P Westlake: 173/174 Mepco: 719E1/719H1 Secor: PFDS/PFDR Roderstein: KP1835 Wima: FKP CSF Thompson: PL/PS Rubycon: PP Nisseip: APS/APA.



WV DC	Cap. μF	Tolerance	Dimensions - mm					Digi-Key Part No.	Tape and Box Pricing			Panasonic Part No.
			L	T	H	F	d		500	1,000	5,000	
50	.0001	5%	8.5	4.5	7.5	5.0	0.5	P3101TB-ND	—	138.00	133.00/M	ECO-P1H101JZ3
	.00012	5%	8.5	4.5	7.5	5.0	0.5	P3121TB-ND	—	138.00	133.00/M	ECO-P1H121JZ3
	.00015	5%	8.5	4.5	7.5	5.0	0.5	P3151TB-ND	—	138.00	133.00/M	ECO-P1H151JZ3
	.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	—	138.00	133.00/M	ECO-P1H181JZ3
	.00022	5%	8.5	4.5	7.5	5.0	0.5	P3221TB-ND	—	138.00	133.00/M	ECO-P1H221JZ3
	.00027	5%	8.5	4.5	7.5	5.0	0.5	P3271TB-ND	—	138.00	133.00/M	ECO-P1H271JZ3
	.00033	5%	8.5	4.5	7.5	5.0	0.5	P3331TB-ND	—	138.00	133.00/M	ECO-P1H331JZ3
	.00039	5%	8.5	4.5	7.5	5.0	0.5	P3391TB-ND	—	138.00	133.00/M	ECO-P1H391JZ3
	.00047	5%	8.5	4.5	7.5	5.0	0.5	P3471TB-ND	—	138.00	133.00/M	ECO-P1H471JZ3
	.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND	—	138.00	133.00/M	ECO-P1H561JZ3
	.00068	5%	8.5	4.5	7.5	5.0	0.5	P3681TB-ND	—	138.00	133.00/M	ECO-P1H681JZ3
	.00082	5%	8.5	4.5	7.5	5.0	0.5	P3821TB-ND	—	138.00	133.00/M	ECO-P1H821JZ3
	.001	2%	8.5	4.5	7.5	5.0	0.5	P3102TB-ND	—	193.00	187.00/M	ECO-P1H102GZ3
	.0012	2%	8.5	4.5	7.5	5.0	0.5	P3122TB-ND	—	193.00	187.00/M	ECO-P1H122GZ3
	.0015	2%	8.5	4.5	7.5	5.0	0.5	P3152TB-ND	—	193.00	187.00/M	ECO-P1H152GZ3
	.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND	—	193.00	187.00/M	ECO-P1H182GZ3
	.0022	2%	8.5	4.5	7.5	5.0	0.5	P3222TB-ND	—	193.00	187.00/M	ECO-P1H222GZ3
	.0027	2%	8.5	4.5	7.5	5.0	0.5	P3272TB-ND	—	193.00	187.00/M	ECO-P1H272GZ3
	.0033	2%	8.5	4.5	7.5	5.0	0.5	P3332TB-ND	—	193.00	187.00/M	ECO-P1H332GZ3
	.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND	—	193.00	187.00/M	ECO-P1H392GZ3
	.0047	2%	8.5	4.5	7.5	5.0	0.5	P3472TB-ND	—	193.00	187.00/M	ECO-P1H472GZ3
	.0056	2%	8.5	4.5	8.0	5.0	0.5	P3562TB-ND	—	206.00	199.00/M	ECO-P1H562GZ3
	.0068	2%	8.5	5.0	8.0	5.0	0.5	P3682TB-ND	—	206.00	199.00/M	ECO-P1H682GZ3
	.0082	2%	12.0	5.5	9.0	7.5	0.6	P3822TB-ND	—	221.00	214.00/M	ECO-P1H822GZ3
	.01	2%	12.0	5.0	8.5	5.0	0.6	P3103TB-ND	—	221.00	214.00/M	ECO-P1H103GZ3
	.012	2%	12.0	5.5	9.0	7.5	0.6	P3123TB-ND	—	221.00	214.00/M	ECO-P1H123GZ3
	.015	2%	12.0	5.0	9.0	7.5	0.6	P3153TB-ND	—	221.00	214.00/M	ECO-P1H153GZ3
	.018	2%	12.0	5.5	9.5	7.5	0.6	P3183TB-ND	—	238.00	230.00/M	ECO-P1H183GZ3
	.022	2%	12.0	5.5	10.5	7.5	0.6	P3223TB-ND	—	238.00	230.00/M	ECO-P1H223GZ3
	.027	2%	12.0	6.0	11.0	7.5	0.6	P3273TB-ND	136.50	—	264.00/M	ECO-P1H273GZ3
	.033	2%	12.0	6.5	11.5	7.5	0.6	P3333TB-ND	136.50	—	264.00/M	ECO-P1H333GZ3
	.039	2%	12.0	6.5	11.5	7.5	0.6	P3393TB-ND	—	—	—	—
	.047	2%	14.5	6.5	12.5	10.0	0.6	P3473TB-ND	—	—	—	—
	.056	2%	14.5	6.5	13.5	10.0	0.6	P3563TB-ND	—	—	—	—
	.068	2%	14.5	7.0	14.0	10.0	0.6	P3683TB-ND	—	—	—	—
	.082	2%	17.0	7.0	14.0	12.5	0.6	P3823TB-ND	—	—	—	—
	.1	2%	17.0	7.5	14.5	12.5	0.6	P3104-ND	—	—	—	—
	.12	2%	17.0	8.5	15.5	12.5	0.6	P3124-ND	—	—	—	—
	.15	2%	20.0	8.0	15.5	15.0	0.6	P3154-ND	—	—	—	—
	.18	2%	20.0	9.0	16.0	15.0	0.6	P3184-ND	—	—	—	—
	.22	2%	20.0	9.5	17.0	15.0	0.6	P3224-ND	—	—	—	—
	.27	2%	20.0	10.5	18.0	15.0	0.6	P3274-ND	—	—	—	—
	.33	2%	22.5	10.0	19.5	17.5	0.8	P3334-ND	—	—	—	—
	.39	2%	22.5	11.0	20.0	17.5	0.8	P3394-ND	—	—	—	—
	.47	2%	22.5	12.0	21.0	17.5	0.8	P3474-ND	—	—	—	—

• RoHS Compliant

ECQ-P (Z) Series Polypropylene Film Capacitors

Non-inductive construction using Polypropylene film with epoxy resin coating.

Features:

- Excellent temperature and frequency characteristics
- Excellent long term stability

Applications:

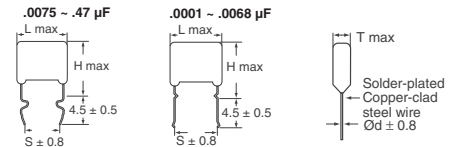
- Dolby circuits
- Oscillation circuits

Electrical Specifications:

- Temperature Range: -40°C - 85°C • Rated Voltage: 50VDC, (Voltage derating is required

above 70°. See data sheet for details.)

- Dissipation Factor: 0.1% maximum at 1kHz and 20°
- Withstand Voltage: Between terminals: Rated voltage (VDC) x 250% 1-5 seconds • Insulation Resistance: C ≤ 0.33μF: 45000MΩ minimum C > 0.33μF: 15000MΩ μF minimum (20°C Rated Voltage - 60s)



WV DC	Cap. μF	Tolerance	Dimensions - mm					Digi-Key Part No.	Pricing			Panasonic Part No.	
			L	T	H	S	d		1	10	100		1,000
50	.0001	5%	8.5	4.5	12.5	5.0	0.50	P3889-ND	23	1.94	16.20	97.20	ECO-P1H101JZW
	.00012	5%	8.5	4.5	12.5	5.0	0.50	P3890-ND	23	1.94	16.20	97.20	ECO-P1H121JZW
	.00015	5%	8.5	4.5	12.5	5.0	0.50	P3891-ND	23	1.94	16.20	97.20	ECO-P1H151JZW
	.00018	5%	8.5	4.5	12.5	5.0	0.50	P3892-ND	23	1.94	16.20	97.20	ECO-P1H181JZW
	.00022	5%	8.5	4.5	12.5	5.0	0.50	P3893-ND	23	1.94	16.20	97.20	ECO-P1H221JZW
	.00027	5%	8.5	4.5	12.5	5.0	0.50	P3894-ND	23	1.94	16.20	97.20	ECO-P1H271JZW
	.00033	5%	8.5	4.5	12.5	5.0	0.50	P3895-ND	23	1.94	16.20	97.20	ECO-P1H331JZW
	.00039	5%	8.5	4.5	12.5	5.0	0.50	P3896-ND	23	1.94	16.20	97.20	ECO-P1H391JZW
	.00047	5%	8.5	4.5	12.5	5.0	0.50	P3897-ND	23	1.94	16.20	97.20	ECO-P1H471JZW
	.00056	5%	8.5	4.5	12.5	5.0	0.50	P3898-ND	23	1.94	16.20	97.20	ECO-P1H561JZW
	.00068	5%	8.5	4.5	12.5	5.0	0.50	P3899-ND	23	1.94	16.20	97.20	ECO-P1H681JZW
	.00082	5%	8.5	4.5	12.5	5.0	0.50	P3900-ND	23	1.94	16.20	97.20	ECO-P1H821JZW
	.0011	2%	8.5	4.5	12.5	5.0	0.50	P3901-ND	35	3.04	25.30	151.80	ECO-P1H102GZW
	.0012	2%	8.5	4.5	12.5	5.0	0.50	P3902-ND	35	3.04	25.30	151.80	ECO-P1H122GZW
	.0015	2%	8.5	4.5	12.5	5.0	0.50	P3903-ND	35	3.04	25.30	151.80	ECO-P1H152GZW
	.0018	2%	8.5	4.5	12.5	5.0	0.50	P3904-ND	35	3.04	25.30	151.80	ECO-P1H182GZW
	.0022	2%	8.5	4.5	12.5	5.0	0.50	P3905-ND	35	3.04	25.30	151.80	ECO-P1H222GZW
	.0027	2%	8.5	4.5	12.5	5.0	0.50	P3906-ND	35	3.04	25.30	151.80	ECO-P1H272GZW
	.0033	2%	8.5	4.5	12.5	5.0	0.50	P3907-ND	35	3.04	25.30	151.80	ECO-P1H332GZW
	.0039	2%	8.5	4.5	12.5	5.0	0.50	P3908-ND	35	3.04	25.30	151.80	ECO-P1H392GZW
	.0047	2%	8.5	4.5	12.5	5.0	0.50	P3909-ND	35	3.04	25.30	151.80	ECO-P1H472GZW
	.0056	2%	8.5	4.5	13.0	5.0	0.50	P3910-ND	38	3.28	27.30	163.80	ECO-P1H562GZW
	.0068	2%	8.5	5.0	13.0	5.0	0.50	P3911-ND	38	3.28	27.30	163.80	ECO-P1H682GZW
	.0082	2%	12.0	5.5	14.0	5.0	0.60	P3912-ND	38	3.28	27.30	163.80	ECO-P1H822GZW
	.01	2%	12.0	5.0	13.5	5.0	0.60	P3913-ND	41	3.55	29.60	177.60	ECO-P1H103GZW
	.012	2%	12.0	5.0	14.0	5.0	0.60	P3914-ND	41	3.55	29.60	177.60	ECO-P1H123GZW
	.015	2%	12.0	5.0	14.0	5.0	0.60	P3915-ND	41	3.55	29.60	177.60	ECO-P1H153GZW
	.018	2%	12.0	5.5	14.5	5.0	0.60	P3916-ND	45	3.86	32.20	193.20	ECO-P1H183GZW
	.022	2%	12.0	5.5	15.5	5.0	0.60	P3917-ND	45	3.86	32.20	193.20	ECO-P1H223GZW
	.027	2%	12.0	6.0	16.0	5.0	0.60	P3918-ND	45	3.86	32.20	193.20	ECO-P1H273GZW
	.033	2%	12.0	6.5	16.5	5.0	0.60	P3919-ND	47	4.04	33.63	201.75	ECO-P1H333GZW
	.039	2%	14.5	5.5	17.0	5.0	0.60	P3920-ND	52	4.42	36.80	220.80	ECO-P1H393GZW

• RoHS Compliant

WV DC	Cap. μF	Tolerance	Dimensions - mm					Digi-Key Part No.	Pricing			Panasonic Part No.	
			L	T	H	S	d		1	10	100		1,000
50	.0047	2%	14.5	6.0	17.5	5.0	0.60	P3921-ND	60	5.14	42.85	257.10	ECO-P1H473GZW
	.0056	2%	14.5	6.5	18.5	5.0	0.60	P3922-ND	60	5.14	42.85	257.10	