

Panasonic® Polypropylene Film Capacitors - ECQP(U)

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

Features:

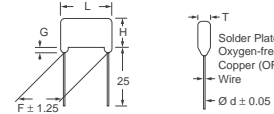
- Low loss and excellent frequency characteristics
- Excellent temperature characteristics
- High insulation resistance

Applications:

- High frequency and high current circuits
- General purpose circuit

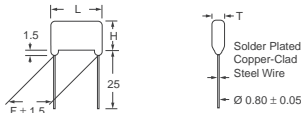
Electrical Specifications:

- Reference Standard: EIAJ RC-3670B Characteristics P
- Temperature Range: -40°C to 85°C Derating of rated voltage at more than 85°C (rated voltage x 50%)
- Capacitance Tolerance: ±5%
- Dissipation Factor: 0.1% max. at 1kHz and 20°C
- Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals
- Insulation Resistance: 45,000 MΩ min., for values equal to or less than .33μF. 15,000 MΩ/μF min., for greater than .33μF (20°C, 100VDC, 60s)



WV DC	Cap. μF	Tolerance	Dimensions (mm)					Digi-Key Part No.	Pricing					Panasonic Part No.			
			L	T	H	F	G		d	1	10	100	1,000		5,000	10,000	
400 WV	.0082	5%	19.5	6.0	16.0	10.0	1.0	0.60	P3475-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECO-P4822JU	
	.01	5%	19.5	6.5	16.5	10.0	1.0	0.60	P3476-ND	.51	4.35	36.25	216.00	201.00/M	188.00/M	ECO-P4103JU	
	.012	5%	19.5	6.5	18.5	10.0	1.0	0.60	P3477-ND	.53	4.50	37.50	224.00	208.00/M	195.00/M	ECO-P4123JU	
	.015	5%	19.5	6.0	18.5	10.0	1.0	0.60	P3478-ND	.55	4.71	39.25	234.00	218.00/M	204.00/M	ECO-P4153JU	
	.018	5%	19.5	6.0	19.0	10.0	1.0	0.60	P3479-ND	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECO-P4183JU	
	.022	5%	19.5	6.0	19.4	10.0	1.0	0.60	P3480-ND	.59	5.04	42.00	251.00	233.00/M	218.00/M	ECO-P4223JU	
	.027	5%	19.5	6.5	20.0	10.0	1.0	0.60	P3481-ND	.60	5.16	43.00	257.00	239.00/M	223.00/M	ECO-P4273JU	
	.033	5%	19.5	7.0	21.8	15.0	1.0	0.60	P3482-ND	.62	5.34	44.50	266.00	247.00/M	231.00/M	ECO-P4333JU	
	.039	5%	19.5	7.5	22.8	15.0	1.0	0.60	P3483-ND	.64	5.46	45.50	272.00	253.00/M	236.00/M	ECO-P4393JU	
	.047	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3484-ND	.70	6.03	50.25	300.00	279.00/M	261.00/M	ECO-P4473JU	
	.056	5%	24.5	7.0	22.0	15.0	1.5	0.80	P3485-ND	.76	6.54	54.50	325.00	303.00/M	283.00/M	ECO-P4563JU	
	.068	5%	24.5	7.5	23.0	15.0	1.5	0.80	P3486-ND	.82	7.02	58.50	349.00	325.00/M	304.00/M	ECO-P4683JU	
	.082	5%	24.5	8.5	23.8	15.0	1.5	0.80	P3487-ND	.88	7.53	62.75	375.00	349.00/M	326.00/M	ECO-P4823JU	
	.1	5%	24.5	9.0	26.6	20.0	1.5	0.80	P3488-ND	.94	8.07	67.25	401.00	374.00/M	349.00/M	ECO-P4104JU	
	.12	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3489-ND	1.05	9.03	75.25	449.00	418.00/M	391.00/M	ECO-P4124JU	
	.15	5%	24.5	11.0	28.6	20.0	1.5	0.80	P3490-ND	1.18	10.08	84.00	501.00	467.00/M	436.00/M	ECO-P4154JU	
	.18	5%	29.5	10.5	26.0	20.0	1.5	0.80	P3491-ND	1.30	11.10	92.50	552.00	514.00/M	481.00/M	ECO-P4184JU	
	.22	5%	29.5	11.5	27.0	20.0	1.5	0.80	P3492-ND	1.38	11.82	98.50	588.00	547.00/M	512.00/M	ECO-P4224JU	
	.27	5%	29.5	13.0	28.4	20.0	1.5	0.80	P3493-ND	1.65	14.13	117.75	703.00	654.00/M	612.00/M	ECO-P4274JU	
	.33	5%	29.5	15.0	29.8	20.0	1.5	0.80	P3494-ND	1.78	15.24	127.00	758.00	706.00/M	660.00/M	ECO-P4334JU	
	.39	5%	35.0	15.0	30.0	20.0	1.5	0.80	P3495-ND	1.90	16.32	136.00	812.00	756.00/M	706.00/M	ECO-P4394JU	
	.47	5%	35.0	16.5	31.4	20.0	1.5	0.80	P3496-ND	2.03	17.40	145.00	866.00	806.00/M	753.00/M	ECO-P4474JU	
	630 WV	.001	5%	14.5	5.0	15.5	10.0	1.0	0.60	P3497-ND	.42	3.60	30.00	179.00	167.00/M	156.00/M	ECO-P6102JU
		.0012	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3498-ND	.43	3.66	30.50	182.00	169.00/M	158.00/M	ECO-P6122JU
		.0015	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3499-ND	.43	3.72	31.00	185.00	172.00/M	161.00/M	ECO-P6152JU
		.0018	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3500-ND	.44	3.78	31.50	188.00	175.00/M	164.00/M	ECO-P6182JU
		.0022	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3501-ND	.45	3.84	32.00	191.00	178.00/M	166.00/M	ECO-P6222JU
		.0027	5%	14.5	5.5	16.0	10.0	1.0	0.60	P3502-ND	.46	3.90	32.50	194.00	181.00/M	169.00/M	ECO-P6272JU
		.0033	5%	14.5	6.0	16.5	10.0	1.0	0.60	P3503-ND	.47	4.02	33.50	200.00	186.00/M	174.00/M	ECO-P6332JU
		.0039	5%	14.5	6.0	18.5	10.0	1.0	0.60	P3504-ND	.49	4.20	35.00	209.00	194.00/M	182.00/M	ECO-P6392JU
.0047		5%	14.5	6.5	18.5	10.0	1.0	0.60	P3505-ND	.51	4.35	36.25	216.00	201.00/M	188.00/M	ECO-P6472JU	
.0056		5%	14.5	7.0	19.0	10.0	1.0	0.60	P3506-ND	.54	4.59	38.25	228.00	212.00/M	199.00/M	ECO-P6562JU	
.0068		5%	19.5	5.5	18.6	10.0	1.0	0.60	P3507-ND	.55	4.71	39.25	234.00	218.00/M	204.00/M	ECO-P6682JU	
.0082		5%	19.5	6.0	19.0	10.0	1.0	0.60	P3508-ND	.57	4.86	40.50	242.00	225.00/M	210.00/M	ECO-P6822JU	
.01		5%	19.5	6.0	19.4	10.0	1.0	0.60	P3509-ND	.58	4.98	41.50	248.00	231.00/M	216.00/M	ECO-P6103JU	
.012		5%	19.5	6.5	19.8	10.0	1.0	0.60	P3510-ND	.60	5.16	43.00	257.00	239.00/M	223.00/M	ECO-P6123JU	
.015		5%	19.5	7.0	20.4	15.0	1.0	0.60	P3511-ND	.62	5.34	44.50	266.00	247.00/M	231.00/M	ECO-P6153JU	
.018		5%	19.5	7.0	22.6	15.0	1.0	0.60	P3512-ND	.64	5.46	45.50	272.00	253.00/M	236.00/M	ECO-P6183JU	
.022		5%	19.5	8.0	23.4	15.0	1.0	0.60	P3513-ND	.65	5.58	46.50	278.00	258.00/M	242.00/M	ECO-P6223JU	
.027		5%	19.5	8.5	24.2	15.0	1.0	0.60	P3514-ND	.70	6.00	50.00	299.00	278.00/M	260.00/M	ECO-P6273JU	
.033		5%	24.5	8.0	23.2	15.0	1.5	0.80	P3515-ND	.72	6.15	51.25	306.00	285.00/M	266.00/M	ECO-P6333JU	
.039		5%	24.5	8.5	23.8	15.0	1.5	0.80	P3516-ND	.80	6.87	57.25	342.00	318.00/M	297.00/M	ECO-P6393JU	
.047		5%	24.5	9.0	24.6	15.0	1.5	0.80	P3517-ND	.90	7.71	64.25	384.00	357.00/M	334.00/M	ECO-P6473JU	
.056		5%	24.5	10.0	27.4	20.0	1.5	0.80	P3518-ND	.91	7.83	65.25	390.00	362.00/M	339.00/M	ECO-P6563JU	
.068		5%	24.5	11.0	28.4	20.0	1.5	0.80	P3519-ND	1.01	8.67	72.25	431.00	401.00/M	375.00/M	ECO-P6683JU	
.082		5%	29.5	10.5	25.6	25.0	1.5	0.80	P3520-ND	1.09	9.33	77.75	464.00	432.00/M	404.00/M	ECO-P6823JU	
.1		5%	29.5	11.5	26.8	25.0	1.5	0.80	P3521-ND	1.18	10.14	84.50	504.00	469.00/M	439.00/M	ECO-P6104JU	

Panasonic® Metallized Polypropylene Film Capacitors - ECWF(B)



Designed for applications where high current and high frequency are required.

Features: • Low-loss • Excellent frequency characteristics • Flame retardant epoxy resin coating

- Applications:** • High frequency and high current circuits (TV, display, monitor, power supply, etc.)
- Electrical Specifications:** • Temperature Range: -25°C to 85°C • Rated Voltage: 250VDC (150Vrms, 250Vp-p), 400VDC (200Vrms, 400Vp-p) • Capacitance Tolerance: ±5% • Dissipation Factor: .068 to .51μF: 0.05% max. (20°C, 1kHz) 250VDC, .56 to 4.7μF: 0.1% max. (20°C, 1kHz) 250VDC, .068 to 4.7μF: 0.2% max. (20°C, 10kHz) 250VDC, .068 to 1.5μF: 0.1% max. (20°C, 1kHz) 400VDC • Withstand Voltage: Between terminals.- Rated voltage: (VDC) x 150% for 60s • Insulation Resistance: 9,000 MΩ min., for values 0.068 to .33μF. 3,000 MΩ/μF min., for 0.36 to 4.7μF (20°C, 100VDC, 60s)

WV DC	Cap. μF	Tolerance	Dimensions (mm)					Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F	G		d	1	10	100	1,000	
250 WV	.068	5%	18.0	6.0	13.0	15.0	1.77	15.15	126.25	756.00	712.00/M	ECWF-F2683JB		
	.082	5%	18.0	6.5	13.5	15.0	1.84	15.75	131.25	786.00	740.00/M	ECWF-F2823JB		
	.1	5%	18.0	7.0	14.0	15.0	1.87	16.05	133.75	801.00	755.00/M	ECWF-F2104JB		
	.12	5%	18.0	7.5	14.5	15.0	1.94	16.65	138.75	831.00	783.00/M	ECWF-F2124JB		
	.15	5%	18.0	8.5	15.0	15.0	2.06	17.64	147.00	880.00	829.00/M	ECWF-F2154JB		
	.18	5%	18.0	6.5	13.5	15.0	2.10	17.97	149.75	897.00	845.00/M	ECWF-F2184JB		
	.22	5%	18.0	7.0	14.0	15.0	2.13	18.24	152.00	910.00	858.00/M	ECWF-F2224JB		
	.27	5%	18.0	8.0	14.5	15.0	2.15	18.39	153.25	918.00	865.00/M	ECWF-F2274JB		
	.33	5%	18.0	8.5	15.0	15.0	2.17	18.60	155.00	928.00	874.00/M	ECWF-F2334JB		
	.39	5%	18.0	9.0	16.0	15.0	2.26	20.19	168.25	1007.00	949.00/M	ECWF-F2394JB		
	.47	5%	23.0	8.0	15.0	20.0	2.55	21.87	182.25	1091.00	1028.00/M	ECWF-F2474JB		
	.56	5%	23.0	8.5	15.5	20.0	2.68	22.98	191.50	1147.00	1080.00/M	ECWF-F2564JB		
	.68	5%	23.0	9.5	16.5	20.0	2.79	23.91	199.25	1193.00	1124.00/M	ECWF-F2684JB		
	.82	5%	23.0	10.5	17.0	20.0	2.89	24.81	206.75	1238.00	1166.00/M	ECWF-F2824JB		
	1.0	5%	23.0	11.5	18.0	20.0	2.94	25.17	209.75	1256.00	1183.00/M	ECWF-F2105JB		
400 WV	1.2	5%	23.0	12.5	19.5	20.0	3.06	26.25	218.75	1310.00	1234.00/M	ECWF-F2125JB		
	1.5	5%	23.0	14.0	21.0	20.0	3.40	29.16	243.00	1455.00	1371.00/M	ECWF-F2155JB		
	1.8	5%	28.0	12.5	21.0	25.0	3.8							