

Panasonic® B 系列 聚酯电容器

PANASONIC ECO-B 对照索引:

Sprague: 225P, 418P; Meppco: 713D1, 711D1, 719D1; TRW: 601PE, 601CPE; Packtron: PE, FM; Secor: MFDW, MFD R; Roederstein: KT1805, KT1806, KT1807, KT1898; Wima: FKS; CSF Thompson: ED (Dip); Rubycon: F2X, F2S, F3U; Nichicon: TDY; Nissel: AMZ, AMX, AMR, AMM.

技术规格:

- 工作温度范围: -40°C ~ 85°C • 额定电压: DC 50V, 100V, 200V • 额定电容范围: 0.0001 ~ 0.47 μF
- 电容公差: ±5% (J)、±10% (K) • 耗散因数: 1.0% (20°C, 1kHz) • 承受电压: 端子间的电压: 额定电压

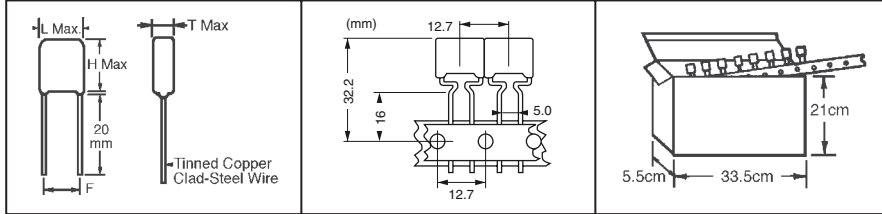
(V, DC) x 250% 1 ~ 5 秒 • 绝缘电阻: $C \leq 0.33\mu\text{F}$: 30000MΩ 最小 (20°C, 50VDC 60s: ECOB1H (F)), $C > 0.33\mu\text{F}$: 10000MΩ 最小 (20°C, 100VDC 60s: ECOB1 (F), ECOB2 (F)) • 构造: 聚酯膜, 非电感性, 环氧涂层。

特点:

高容效率、非电感性构造、低损失、高稳定性、环氧树脂涂层。

应用:

直至 VHF 范围阻断、旁通、偶合 DC 与信号; 脉冲电路、逻辑电路以及时序电路; 轻负荷脉冲形成网络; 滤波与杂音抑制电路; 以及一般用途。



Panasonic 聚酯电容器
Digi-Key® B 系列套件
共 300 个电容器。
P4550-KIT-ND 29.95
包括以下列出的零件 (*)。

P4551-ND 80 个	P4555-ND 30 个	P4559-ND 30 个
P4552-ND 10 个	P4556-ND 10 个	P4560-ND 10 个
P4553-ND 20 个	P4557-ND 20 个	P4561-ND 30 个
P4554-ND 20 个	P4558-ND 20 个	P4562-ND 20 个

F

电压	电容 (μF)	容差	尺寸 (mm)				Digi-Key 零件编号	价格				Panasonic 零件编号	
			L	T	H	F		10	100	1,000	5,000		10,000
50WV (散装)	.0001 ±10%	7.0	3.0	6.0	5.0	P4570-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H101KF	
	.00012 ±10%	7.0	3.0	6.0	5.0	P4571-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H121KF	
	.00015 ±10%	7.0	3.0	6.0	5.0	P4572-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H151KF	
	.00018 ±10%	7.0	3.0	6.0	5.0	P4573-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H181KF	
	.00022 ±10%	7.0	3.0	6.0	5.0	P4574-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H221KF	
	.00027 ±10%	7.0	3.0	6.0	5.0	P4575-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H271KF	
	.00033 ±10%	7.0	3.0	6.0	5.0	P4576-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H331KF	
	.00039 ±10%	7.0	3.0	6.0	5.0	P4577-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H391KF	
	.00047 ±5%	7.0	3.0	6.0	5.0	P4578-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H471JF	
	.00056 ±5%	7.0	3.0	6.0	5.0	P4579-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H561JF	
	.00068 ±5%	7.0	3.0	6.0	5.0	P4580-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H681JF	
	.00082 ±5%	7.0	3.0	6.0	5.0	P4581-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H821JF	
	.001 ±5%	7.0	3.0	6.0	5.0	P4551-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H102JF	
	.0012 ±5%	7.0	3.0	6.0	5.0	P4552-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H122JF	
	.0015 ±5%	7.0	3.0	6.0	5.0	P4553-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H152JF	
	.0018 ±5%	7.0	3.0	6.0	5.0	P4554-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H182JF	
	.0022 ±5%	7.0	3.0	6.0	5.0	P4555-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H222JF	
	.0027 ±5%	7.0	3.0	6.0	5.0	P4556-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H272JF	
	.0033 ±5%	7.0	3.0	6.0	5.0	P4557-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H332JF	
	.0039 ±5%	7.0	3.0	6.0	5.0	P4558-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H392JF	
	.0047 ±5%	7.0	3.0	6.0	5.0	P4559-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H472JF	
	.0056 ±5%	7.0	3.0	6.0	5.0	P4560-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H562JF	
	.0068 ±5%	7.0	3.0	6.0	5.0	P4561-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H682JF	
	.0082 ±5%	7.0	3.0	6.0	5.0	P4562-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H822JF	
	.01 ±5%	7.0	3.0	6.0	5.0	P4582-ND	.72	4.80	38.00	36.00/M	33.00/M	ECO-B1H103JF	
	.012 ±5%	7.5	3.3	6.3	5.0	P4583-ND	.75	5.00	39.00	38.00/M	34.00/M	ECO-B1H123JF	
	.015 ±5%	7.5	3.0	6.0	5.0	P4584-ND	.78	5.20	41.00	39.00/M	36.00/M	ECO-B1H153JF	
	.018 ±5%	7.5	3.0	6.0	5.0	P4585-ND	.81	5.40	42.00	41.00/M	37.00/M	ECO-B1H183JF	
	.022 ±5%	7.5	3.0	6.0	5.0	P4586-ND	.81	5.40	42.00	41.00/M	37.00/M	ECO-B1H223JF	
	.027 ±5%	7.5	3.5	6.5	5.0	P4587-ND	.84	5.60	44.00	42.00/M	38.00/M	ECO-B1H273JF	
	.033 ±5%	7.5	3.5	6.5	5.0	P4569-ND	.87	5.80	45.00	44.00/M	40.00/M	ECO-B1H333JF	
	.039 ±5%	7.5	3.5	6.5	5.0	P4588-ND	.90	6.00	47.00	45.00/M	41.00/M	ECO-B1H393JF	
	.047 ±5%	7.5	4.0	7.0	5.0	P4589-ND	.93	6.20	48.00	47.00/M	42.00/M	ECO-B1H473JF	
	.056 ±5%	8.0	4.0	7.5	5.0	P4590-ND	.99	6.60	52.00	50.00/M	45.00/M	ECO-B1H563JF	
	.068 ±5%	8.0	4.3	8.5	5.0	P4591-ND	1.14	7.60	59.00	57.00/M	52.00/M	ECO-B1H683JF	
	.082 ±5%	8.0	4.5	9.0	5.0	P4592-ND	1.20	8.00	63.00	60.00/M	55.00/M	ECO-B1H823JF	
	.1 ±5%	8.0	5.0	10.0	5.0	P4593-ND	1.29	8.60	67.00	65.00/M	59.00/M	ECO-B1H104JF	
	.12 ±5%	11.0	5.0	11.6	7.5	P4594-ND	3.15	21.00	164.00	159.00/M	144.00/M	ECO-B1H124JF	
	.15 ±5%	11.0	5.0	12.0	7.5	P4595-ND	3.39	22.60	177.00	171.00/M	155.00/M	ECO-B1H154JF	
	.18 ±5%	11.0	5.5	12.4	7.5	P4596-ND	3.54	23.60	184.00	178.00/M	162.00/M	ECO-B1H184JF	
	.22 ±5%	11.0	6.0	13.0	7.5	P4597-ND	3.96	26.40	206.00	199.00/M	181.00/M	ECO-B1H224JF	
	.27 ±5%	13.0	6.0	14.4	10.0	P4598-ND	4.95	33.00	258.00	249.00/M	226.00/M	ECO-B1H274JF	
	.33 ±5%	13.0	6.5	15.0	10.0	P4599-ND	5.34	35.60	278.00	269.00/M	244.00/M	ECO-B1H334JF	
	.39 ±5%	13.0	7.0	15.4	10.0	P4734-ND	5.76	38.40	300.00	290.00/M	263.00/M	ECO-B1H394JF	
	.47 ±5%	13.0	7.5	16.2	10.0	P4735-ND	6.33	42.20	330.00	319.00/M	289.00/M	ECO-B1H474JF	
	100WV (散装)	.0001 ±5%	7.2	3.0	6.0	5.0	P4773-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1101JF
		.00012 ±5%	7.2	3.0	6.0	5.0	P4774-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1121JF
		.00015 ±5%	7.2	3.0	6.0	5.0	P4775-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1151JF
.00018 ±5%		7.2	3.0	6.0	5.0	P4776-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1181JF	
.00022 ±5%		7.2	3.0	6.0	5.0	P4777-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1221JF	
.00027 ±5%		7.2	3.0	6.0	5.0	P4778-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1271JF	
.00033 ±5%		7.2	3.0	6.0	5.0	P4779-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECO-B1331JF	
.00047 ±5%		7.2	3.0	6.0	5.0	P4781-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1471JF	
.00056 ±5%		7.2	3.0	6.0	5.0	P4782-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1561JF	
.00068 ±5%		7.2	3.0	6.0	5.0	P4783-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1681JF	
.00082 ±5%		7.2	3.0	6.0	5.0	P4784-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1821JF	
.001 ±5%		7.2	3.0	6.0	5.0	P4785-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1102JF	
.0012 ±5%		7.2	3.0	6.0	5.0	P4786-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1122JF	
.0015 ±5%		7.2	3.0	6.0	5.0	P4787-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1152JF	
.0018 ±5%		7.2	3.0	6.5	5.0	P4788-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1182JF	
.0022 ±5%		7.2	3.0	6.5	5.0	P4789-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1222JF	
.0027 ±5%		7.2	3.0	6.5	5.0	P4790-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1272JF	
.0033 ±5%		7.2	3.0	6.5	5.0	P4791-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1332JF	
.0039 ±5%		7.2	3.0	6.5	5.0	P4792-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1392JF	
.0047 ±5%		7.2	3.0	6.5	5.0	P4793-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1472JF	
.0056 ±5%		7.2	3.0	6.5	5.0	P4794-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1562JF	
.0068 ±5%		7.2	3.0	6.5	5.0	P4795-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1682JF	
.0082 ±5%		7.2	3.2	7.0	5.0	P4796-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1822JF	
.01 ±5%		7.2	3.2	7.0	5.0	P4797-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECO-B1103JF	

◆ 符合 RoHS 规范要求

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全部产品均以美元计价。 免费电话: 10800-1527031 (China Telecom - 中国电信) — 10800-8527031 (CNCG - 中国网通)

digikey.com.cn — 电话: (852) 3104 0500 — 传真: (852) 3104 0686

(CN082-09) 1787

电压	电容 (μF)	容差	尺寸 (mm)				Digi-Key 零件编号	价格					Panasonic 零件编号				
			L	T	H	F		10	100	1,000	5,000	10,000					
100WV (散装)	.012	±5%	7.2	3.5	7.0	5.0	P4798-ND	1.16	7.74	60.00	58.00/M	53.00/M	EQC-B1123JF				
	.015	±5%	7.2	4.0	7.5	5.0	P4799-ND	1.20	8.02	63.00	61.00/M	55.00/M	EQC-B1153JF				
	.018	±5%	7.5	4.5	8.0	5.0	P4647-ND	1.28	8.56	67.00	65.00/M	59.00/M	EQC-B1183JF				
	.022	±5%	7.5	4.5	9.0	5.0	P4648-ND	1.38	9.22	72.00	70.00/M	63.00/M	EQC-B1223JF				
	.027	±5%	7.5	5.0	9.5	5.0	P4649-ND	1.44	9.62	75.00	73.00/M	66.00/M	EQC-B1273JF				
	.033	±5%	7.5	5.5	10.0	5.0	P4650-ND	1.47	9.80	77.00	74.00/M	67.00/M	EQC-B1333JF				
	.039	±5%	7.5	6.0	11.2	5.0	P4651-ND	1.47	9.80	77.00	74.00/M	67.00/M	EQC-B1393JF				
	.047	±5%	7.5	6.5	11.8	5.0	P4652-ND	1.49	9.90	77.00	75.00/M	68.00/M	EQC-B1473JF				
	.056	±5%	10.0	5.0	12.0	7.5	P4653-ND	1.49	9.90	77.00	75.00/M	68.00/M	EQC-B1563JF				
	.068	±5%	10.0	5.5	12.4	7.5	P4654-ND	1.52	10.12	79.00	76.00/M	69.00/M	EQC-B1683JF				
	.082	±5%	10.0	5.5	14.0	7.5	P4655-ND	1.55	10.36	81.00	78.00/M	71.00/M	EQC-B1823JF				
	.1	±5%	10.5	6.0	14.6	7.5	P4656-ND	1.59	10.58	83.00	80.00/M	72.00/M	EQC-B1104JF				
	.12	±5%	10.5	7.0	15.2	7.5	P4657-ND	2.54	16.94	132.00	128.00/M	116.00/M	EQC-B1124JF				
	.15	±5%	13.0	7.0	13.8	10.0	P4658-ND	3.05	20.32	159.00	153.00/M	139.00/M	EQC-B1154JF				
	.18	±5%	13.0	7.5	14.4	10.0	P4659-ND	3.56	23.70	185.00	179.00/M	162.00/M	EQC-B1184JF				
	.22	±5%	13.0	8.0	15.2	10.0	P4660-ND	4.06	27.08	212.00	205.00/M	185.00/M	EQC-B1224JF				
	.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	4.57	30.46	238.00	230.00/M	209.00/M	EQC-B1274JF				
	.33	±5%	13.0	9.0	18.0	10.0	P4662-ND	5.08	33.84	264.00	256.00/M	232.00/M	EQC-B1334JF				
	.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	6.09	40.60	317.00	307.00/M	278.00/M	EQC-B1394JF				
	.47	±5%	13.0	11.5	19.2	10.0	P4664-ND	7.61	50.74	396.00	383.00/M	348.00/M	EQC-B1474JF				
200WV (散装)	.001	±5%	8.5	4.0	7.0	5.0	P4537A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2102JF				
	.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2122JF				
	.0015	±5%	8.5	4.0	7.5	5.0	P4539A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2152JF				
	.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2182JF				
	.0022	±5%	8.5	4.5	7.5	5.0	P4541A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2222JF				
	.0027	±5%	8.5	4.5	8.0	5.0	P4542A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2272JF				
	.0033	±5%	11.0	4.5	7.5	7.5	P4543A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2332JF				
	.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2392JF				
	.0047	±5%	11.0	4.5	8.5	7.5	P4545A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2472JF				
	.0056	±5%	11.0	4.5	8.5	7.5	P4546A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2562JF				
	.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2682JF				
	.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2822JF				
	.01	±5%	11.0	4.5	10.0	7.5	P4549A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2103JF				
	.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND	1.40	9.30	73.00	70.00/M	64.00/M	EQC-B2123JF				
	.015	±5%	11.0	5.5	10.5	7.5	P4551A-ND	1.44	9.62	75.00	73.00/M	66.00/M	EQC-B2153JF				
	.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	1.55	10.30	80.00	78.00/M	71.00/M	EQC-B2183JF				
	.022	±5%	11.0	6.0	12.6	7.5	P4553A-ND	1.66	11.08	87.00	84.00/M	76.00/M	EQC-B2223JF				
	.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	1.73	11.56	90.00	87.00/M	79.00/M	EQC-B2273JF				
	.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	1.77	11.78	92.00	89.00/M	81.00/M	EQC-B2333JF				
	.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	1.77	11.78	92.00	89.00/M	81.00/M	EQC-B2393JF				
	.047	±5%	13.5	5.5	14.8	10.0	P4557A-ND	1.78	11.88	93.00	90.00/M	81.00/M	EQC-B2473JF				
	.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	1.78	11.88	93.00	90.00/M	81.00/M	EQC-B2563JF				
	.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	1.82	12.16	95.00	92.00/M	83.00/M	EQC-B2683JF				
	.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND	1.86	12.42	97.00	94.00/M	85.00/M	EQC-B2823JF				
	.1	±5%	16.0	7.0	16.0	12.5	P4561A-ND	1.91	12.70	99.00	96.00/M	87.00/M	EQC-B2104JF				
	.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND	3.05	20.34	159.00	154.00/M	139.00/M	EQC-B2124JF				
	.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	3.66	24.38	190.00	184.00/M	167.00/M	EQC-B2154JF				
	.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	4.27	28.44	222.00	215.00/M	195.00/M	EQC-B2184JF				
	.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND	4.88	32.50	254.00	245.00/M	223.00/M	EQC-B2224JF				
	.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND	5.48	36.56	286.00	276.00/M	250.00/M	EQC-B2274JF				
	.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND	6.09	40.62	317.00	307.00/M	278.00/M	EQC-B2334JF				
	.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	7.31	48.72	381.00	368.00/M	334.00/M	EQC-B2394JF				
	.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND	9.14	60.92	476.00	460.00/M	417.00/M	EQC-B2474JF				
	50WV (弹盒封装)	.0001	±10%	7.0	3.0	6.0	5.0	P4570TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H101KF3
		.00012	±10%	7.0	3.0	6.0	5.0	P4571TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H121KF3
		.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H151KF3
		.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H181KF3
		.00022	±10%	7.0	3.0	6.0	5.0	P4574TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H221KF3
		.00027	±10%	7.0	3.0	6.0	5.0	P4575TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H271KF3
		.00033	±10%	7.0	3.0	6.0	5.0	P4576TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H331KF3
.00039		±10%	7.0	3.0	6.0	5.0	P4577TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H391KF3	
.00047		±5%	7.0	3.0	6.0	5.0	P4578TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H471JF3	
.00056		±5%	7.0	3.0	6.0	5.0	P4579TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H561JF3	
.00068		±5%	7.0	3.0	6.0	5.0	P4580TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H681JF3	
.00082		±5%	7.0	3.0	6.0	5.0	P4581TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H821JF3	
.001		±5%	7.0	3.0	6.0	5.0	P4551TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H102JF3	
.0012		±5%	7.0	3.0	6.0	5.0	P4552TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H122JF3	
.0015		±5%	7.0	3.0	6.0	5.0	P4553TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H152JF3	
.0018		±5%	7.0	3.0	6.0	5.0	P4554TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H182JF3	
.0022		±5%	7.0	3.0	6.0	5.0	P4555TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H222JF3	
.0027		±5%	7.0	3.0	6.0	5.0	P4556TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H272JF3	
.0033		±5%	7.0	3.0	6.0	5.0	P4557TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H332JF3	
.0039		±5%	7.0	3.0	6.0	5.0	P4558TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H392JF3	
.0047		±5%	7.0	3.0	6.0	5.0	P4559TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H472JF3	
.0056		±5%	7.0	3.0	6.0	5.0	P4560TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H562JF3	
.0068		±5%	7.0	3.0	6.0	5.0	P4561TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H682JF3	
.0082		±5%	7.0	3.0	6.0	5.0	P4562TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H822JF3	
.01		±5%	7.0	3.0	6.0	5.0	P4582TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	EQC-B1H103JF3	
.012		±5%	7.3	3.3	6.3	5.0	P4583TB-ND	—	—	39.00/M	—	38.00/M	34.00/M	—	30.00/M		

Panasonic V-系列 ±5% 层叠式金属化膜电容器

适合在大多数情况下替代
单片陶瓷电容器

特点: • 高容积效率 • 低耗散因子 • 层叠式及非电感性构造
• 工作温度范围: -40°C ~ 85°C • 温度系数 Δc/c: 200 ppm • 耗散因数(最大): 1.0% • 绝缘电阻 (25°C): 1000MΩ • 自我修复

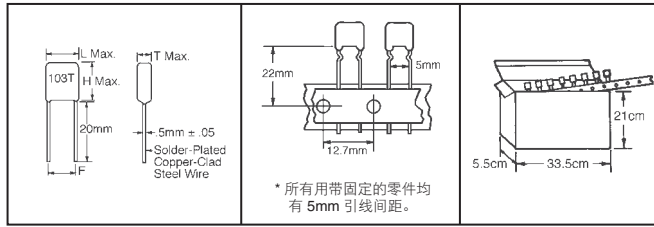
应用: • 阻断、旁通和 DC 耦合 • 脉冲电路、逻辑电路和时序电路
• 轻负载脉冲形成 • 滤波与噪声抑制

PANASONIC ECQ-V 对照索引:

Sprague: 453P/454P. CSF Thompson: IRD

Siemens: B32509.

(欲将毫米转换为英寸, 请除以 25.4.)



• Panasonic 系列层叠式金属化膜电容器

Digi-Key® V-系列电容器套件

P4542-KIT-ND* (50 伏 K)..... 49.95
P4700-KIT-ND† (100 伏 K)..... 49.95

每套包含下面用 (* 或 †) 标注的元件 10 件。共 180 个电容器。表中列出的每个型号的数量。价格包括笔记本式存储盒以及方便存放及快速使用的储藏指南。

工作电压	电容 μF	尺寸 (mm)				Digi-Key 零件编号	价格				Panasonic 零件编号	
		L	T	H	F		1,000	5,000	10,000	100		
散裝												
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	
63	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
100	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-V1I103JM
	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-V1I123JM
	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-V1I153JM
	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-V1I183JM
	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-V1I223JM
	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-V1I273JM
	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-V1I333JM
	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-V1I393JM
	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-V1I473JM
	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-V1I563JM
	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-V1I683JM
	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-V1I823JM
	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-V1I104JM
	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-V1I124JM
	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-V1I154JM
	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-V1I184JM
	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-V1I224JM
	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-V1I274JM
	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-V1I334JM
	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-V1I394JM
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-V1I474JM	

◆ 符合 RoHS 规范要求

工作电压	电容 μF	尺寸 (mm)				Digi-Key 零件编号	价格				Panasonic 零件编号		
		L	T	H	F		1,000	2,000	5,000	6,000		10,000	26,000
弹盒封装 - 符合 RoHS 规范要求													
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	7.3	4.7	7.0	5.0	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					

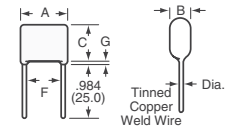
Panasonic® E-系列 金属化聚酯电容器

一般技术规格:

电气: 额定电压 100VDC、250VDC、400 V.D.C.、630 V.D.C. 电容公差: ±10% (K) 绝缘电阻: 小于 0.33μF: 9.000MΩ; 大于 0.33μF: 3.000MΩ. 耗散因子 = 1.0% (1kHz) 承受电压额定电压 X 1.5 (1分钟) 工作温度 -40°C ~ 85°C

Panasonic ECO-E 对照索引:

Sprague: DF/450P/451P/453P; Westlake: 160/168/185/167/184/186; Meppco: 713A1/719A1/C280; TRW: X601PE/X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/ MMDR; RIFA: PHE35/PHE354; Roederstein: MKT1818/MKT1822; WIMA: MKS; CSF Thompson: MD/MC; Siemens: B325X-XX; Rubycon: MCM/MN; Nichicon: DDXM



工作电压	电容 μF	尺寸 (mm)						直径	Digi-Key 零件编号	价格					Panasonic 零件编号
		A	B	C	F	G	1			10	100	1,000	5,000	10,000	
100	.1	12.0	4.0	7.4	10.0	1.0	.6	E1104-ND	.34	2.94	23.03	146.71	138.23M	127.28M	ECO-E1104KZ
	.12	12.0	4.5	7.4	10.0	1.0	.6	E1124-ND	.35	3.03	23.74	151.20	142.46M	131.17M	ECO-E1124KZ
	.15	12.0	4.0	9.5	10.0	1.0	.6	E1154-ND	.36	3.12	24.44	155.69	146.69M	135.07M	ECO-E1154KZ
	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.39	3.30	25.85	164.67	155.15M	142.86M	ECO-E1184KZ
	.22	12.0	5.0	10.5	10.0	1.0	.6	E1224-ND	.41	3.54	27.73	176.65	166.43M	153.25M	ECO-E1224KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND	.46	3.90	30.55	194.61	183.36M	168.84M	ECO-E1274KZ
	.33	17.0	4.5	10.0	15.0	1.0	.6	E1334-ND	.51	4.35	34.08	217.07	204.52M	188.32M	ECO-E1334KZ
	.39	17.0	5.0	10.0	15.0	1.0	.6	E1394-ND	.53	4.50	35.25	224.55	211.57M	194.81M	ECO-E1394KZ
	.47	17.0	5.5	11.0	15.0	1.0	.6	E1474-ND	.55	4.74	37.13	236.53	222.85M	205.20M	ECO-E1474KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND	.64	5.46	42.77	272.45	256.70M	236.37M	ECO-E1564KZ
	.68	17.0	7.0	12.0	15.0	1.0	.8	E1684-ND	.72	6.21	48.65	309.88	291.96M	268.84M	ECO-E1684KZ
	.82	17.0	7.5	13.0	15.0	1.0	.8	E1824-ND	.79	6.81	53.35	339.82	320.17M	294.81M	ECO-E1824KZ
	1.0	17.0	8.0	14.0	15.0	1.0	.8	E1105-ND	.86	7.41	58.35	369.76	348.38M	320.78M	ECO-E1105KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	1.00	8.58	67.21	428.14	403.99M	371.43M	ECO-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND	1.17	10.02	78.49	500.00	471.09M	433.77M	ECO-E1155KZ
	1.8	25.5	8.5	16.0	22.5	1.0	.8	E1185-ND	1.30	11.13	87.19	555.39	523.27M	481.82M	ECO-E1185KZ
	2.2	25.5	9.5	16.5	22.5	1.0	.8	E1225-ND	1.47	12.60	98.70	628.74	592.38M	545.46M	ECO-E1225KZ
	2.7	25.5	10.0	19.0	22.5	1.0	.8	E1275-ND	1.67	14.31	112.12	714.67	672.78M	619.42M	ECO-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND	2.13	18.24	142.88	910.18	857.55M	789.61M	ECO-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND	2.41	20.67	1031.43	971.79M	917.79M	ECO-E1395KZ	
250	.47	30.5	11.0	20.5	27.5	1.5	.8	E1475-ND	2.72	23.31	182.60	1163.17	1095.91M	1009.09M	ECO-E1475KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND	3.23	27.72	217.14	1383.23	1303.24M	1200.00M	ECO-E1565KZ
	6.8	30.5	13.0	24.0	27.5	1.5	.8	E1685-ND	3.67	31.47	246.52	1570.35	1479.55M	1362.34M	ECO-E1685KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND	4.24	36.30	284.35	1811.37	1706.62M	1571.43M	ECO-E1825KZ
	10.0	32.5	16.0	27.0	27.5	1.5	.8	E1106-ND	4.93	43.89	322.89	2127.78M	1955.99M	1828.24M	ECO-E1106KZ
	.01	12.5	5.0	8.5	10.0	1.0	.6	E2103-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2103KZ
	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2123KZ
	.015	12.5	5.0	8.5	10.0	1.0	.6	E2153-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2153KZ
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2183KZ
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2223KZ
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2273KZ
	.033	12.5	5.0	8.5	10.0	1.0	.6	E2333-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2333KZ
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND	.31	2.67	20.92	133.23	125.53M	115.59M	ECO-E2393KZ
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND	.26	2.19	17.16	109.28	102.97M	94.81M	ECO-E2473KZ
	.056	12.5	5.5	8.5	10.0	1.0	.6	E2563-ND	.32	2.76	21.62	137.72	129.76M	119.48M	ECO-E2563KZ
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND	.33	2.82	22.09	140.72	132.58M	122.08M	ECO-E2683KZ
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND	.34	2.94	23.03	146.71	138.23M	127.28M	ECO-E2823KZ
	.10	12.5	5.5	10.5	10.0	1.0	.6	E2104-ND	.26	2.20	17.23	109.73	103.39M	95.20M	ECO-E2104KZ
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND	.40	3.42	26.79	170.66	160.79M	148.06M	ECO-E2124KZ
	.15	17.5	6.0	10.5	15.0	1.0	.8	E2154-ND	.43	3.62	29.14	184.63	171.43M	158.24M	ECO-E2154KZ
.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND	.46	3.90	30.55	194.61	183.36M	168.84M	ECO-E2184KZ	
.22	17.5	6.0	11.0	15.0	1.0	.8	E2224-ND	.38	3.30	25.83	164.52	155.01M	142.73M	ECO-E2224KZ	
.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND	.55	4.71	36.90	235.03	221.44M	203.90M	ECO-E2274KZ	
.33	23.0	6.0	11.0	20.0	1.0	.8	E2334-ND	.60	5.16	40.42	257.48	242.60M	223.38M	ECO-E2334KZ	
.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.65	5.55	43.48	276.95	260.93M	240.26M	ECO-E2394KZ	
.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND	.69	5.94	46.53	296.41	279.77M	257.15M	ECO-E2474KZ	
.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.76	6.21	48.65	326.41	302.95M	281.95M	ECO-E2564KZ	
.68	23.0	8.5	14.0	20.0	1.0	.8	E2684-ND	.84	7.17	56.17	357.78	337.10M	310.39M	ECO-E2684KZ	
.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND	.92	7.89	61.81	393.71	370.95M	341.56M	ECO-E2824KZ	
1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND	.98	8.37	65.57	417.66	393.51M	362.34M	ECO-E2105KZ	
400	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND	1.07	9.18	71.91	458.08	431.60M	397.41M	ECO-E2125KZ
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND	1.38	11.82	92.59	589.82	555.71M	511.69M	ECO-E2155KZ
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.66	14.25	111.63	711.08	669.96M	616.89M	ECO-E2185KZ
	2.2	31.0	10.5	19.5	27.5	1.0	.8	E2225-ND	1.82	15.67	124.79	812.97	771.37M	719.79M	ECO-E2225KZ
	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND	.42	3.60	28.20	179.64	169.26M	155.85M	ECO-E4103KZ
	.012	14.0	5.5	8.5	10.5	1.0	.6	E4123-ND	.42	3.60	28.20	179.64	169.26M	155.85M	ECO-E4123KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND	.43	3.72	29.14	185.63	174.90M	161.04M	ECO-E4153KZ
	.018	14.0	5.5	8.5	10.5	1.0	.6	E4183-ND	.43	3.72	29.14	185.63	174.90M	161.04M	ECO-E4183KZ
	.022	14.0	5.5	10.0	10.5	1.0	.6	E4223-ND	.44	3.75	29.38	187.13	176.31M	162.34M	ECO-E4223KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.47	3.99	31.26	199.10	187.59M	172.73M	ECO-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND	.49	4.18	32.69	211.57	197.48M	182.44M	ECO-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.50	4.26	33.37	212.57	200.29M	184.42M	ECO-E4393KZ
	.047	14.0	7.0	12.0	10.5	1.0	.6	E4473-ND	.50	4.26	33.37	212.57	200.29M	184.42M	ECO-E4473KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND	.54	4.59	35.96	229.04	215.80M	198.71M	ECO-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND	.57	4.86	38.07	242.51	228.49M	210.39M	ECO-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND	.59	5.07	39.72	252.99	238.37M	219.48M	ECO-E4823KZ
	.10	17.0	7.5	14.5	13.5	1.0	.6	E4104-ND	.58	4.98	39.01	248.50	234.14M	215.59M	ECO-E4104KZ
	.12	17.0	8.5	15.5	13.5	1.0	.6	E4154-ND	.66	5.67	45.62	286.58M	245.46M	225.84M	ECO-E4154KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4184-ND	.72	6.21	48.65	309.88	269.96M	268.84M	ECO-E4184KZ
	.18	17.0	10.0	17.0	13.5	1.0	.8	E4184-ND	.77	6.63	51.94	330.84	311.71M	287.02M	ECO-E4184KZ
.22	24.5	8.5	15.5	20.5											