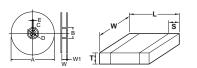
## **Panasonic.** Multilayer Ceramic Chip Capacitors 0402, 0603, 0805 & 1206



	communication equipment. • Computers. • Electronic wrist watches and cameras. • TV tuner. • Video cameras. • Radio and Tape Recorder.											
Reel Diagram					Al	I dimensions	shown in mm.					
Series	Α	В	С	D	E	W	W1					
0402												
0603	180 +1	60 ± 0.5	13.0 ± 0.5	21.0 ± 0.8	2.0 + 0.5	9.0 ± 0.3	1.1 + 0.2					
0805	100 ± 1	60 ± 0.5	13.0 ± 0.5	21.0 ± 0.0	2.0 ± 0.5	9.0 ± 0.3	1.1 ± 0.2					
1206												

FEATURES: • Small in size and large in capacitance. • Superior humidity characteristic and long life due to complete sealing of inner electrodes. • Low inductance and excellent frequency characteristic. • Excellent solderability and resistance to soldering heat due to solder plating.

APPLICATIONS: • Hybrid thick and thin film integrated circuits. • Tele-

RELATED STANDARDS:

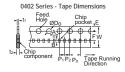
- J15 C 6429 • E1A RS198 • 1 EC Pub. 384-10.

Operating Temperature Range: -55 to 125°C.

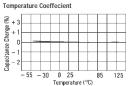
Insulation Resistance (IR): IR ▶ 10000 MΩ or 500/C MΩ, whichever is less (C\*\*\*Rated carectioned in UE).

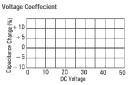


Teeding hole Chip pocket  AO  Lochip  Lochip	Tape Difficusions



Tape Di	iagram										
Series	A	В	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	D <sub>0</sub>	t <sub>1</sub>	t <sub>2</sub>
0402	$0.65 \pm 0.5$	1.15 ± 0.5	8.0 ± .2	3.5 ± .05	1.75 ± .1	2.00 ± 0.05	2.0 ± 0.5	4.0 ± .1	1.5 + .1 - 0	0.7 max.	1.0 max.
0603	1.1 ±0.1	1.9 ±0.1									
0805	1.65 ± 0.2	2.4 x 0.2	8.0 ± .2	3.5 ± .05	1.75 ± .1	4.0 ± .1	2.0 ± 0.5	4.0 ± .1	1.5 + .1 - 0	1.1 max.	1.4 max.
1206	2.0 ± .2	3.6 ± .2									





X7R Dielectric Type Specifications: • Operating temperature range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ . • Capacitance range (1 kHz, 1.0 V rms,  $25^{\circ}\text{C}$ ): 220 pF  $\sim 47,000$  pF. • Voltage: 50 V DC. • Dissipation factor (1 kHz, 1.0 V rms,  $25^{\circ}\text{C}$ ): 2.5% max. • Insulation resistance (rated voltage applied at  $25^{\circ}\text{C}$ ): 10,000 M $\Omega$  min. or 500 M $\Omega$ xμF min. whichever is the smaller.

mperature Coeffecient		Voltage Coeffecient		
8 + 20	85 125	5 + 10 0 + 5 0 - 5 0 - 5 0 10	20 30 DC Voltage	40
remperature (	U)		DC Follage	

						Dime	ensions								_			
Size Code	Туре	WV DC	Cap. pF	Tolerance	±0.2	W ±0.2	T Max.	S ±0.3	Digi-Key Part No.	100	ıt Tape Pri 500	cing 1,000	Digi-Key Part No.	4,000	Tape & F 5,000	Reel Pricing 10,000	12,000	Panasonic Part No.
	71.	50	0.5	±.25pF	1.0	0.5	0.5	0.2	PCC0R5CQCT-ND•	26.50	106.00	159.00	PCC0R5CQTR-ND	_		79.00/M	_	ECU-E1H0R5CCQ
		50	1.0	±.25pF	1.0	0.5	0.5	0.2	PCC010CQCT-ND•	26.50	106.00	159.00	PCC010CQTR-ND	_	_	79.00/M	_	ECU-E1H010CCQ
		50	1.5	±.25pF	1.0	0.5	0.5	0.2	PCC1R5CQCT-ND•	26.50	106.00	159.00	PCC1R5CQTR-ND	_	_	79.00/M	_	ECU-E1H1R5CCQ
		50	2.0	±.25pF	1.0	0.5	0.5	0.2	PCC020CQCT-ND•	26.50	106.00	159.00	PCC020CQTR-ND	_	_	79.00/M	_	ECU-E1H020CCQ
		50	3.0	±.25pF	1.0	0.5	0.5	0.2	PCC030CQCT-ND•	26.50	106.00	159.00	PCC030CQTR-ND			79.00/M		ECU-E1H030CCQ
		50 50	4.0 5.0	±.25pF ±.25pF	1.0	0.5	0.5	0.2	PCC040CQCT-ND• PCC050CQCT-ND•	26.50 26.50	106.00 106.00	159.00 159.00	PCC040CQTR-ND PCC050CQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1H040CCQ ECU-E1H050CCQ
		50	6.0	±.25pF ±.5pF	1.0	0.5	0.5	0.2	PCC050CQCT-ND•	26.50	106.00	159.00	PCC060CQTR-ND	_	_	79.00/M	_	ECU-E1H060DCQ
		50	7.0	±.5pF	1.0	0.5	0.5	0.2	PCC070CQCT-ND•	26.50	106.00	159.00	PCC070CQTR-ND	_	_	79.00/M	_	ECU-E1H070DCQ
		50	8.0	±.5pF	1.0	0.5	0.5	0.2	PCC080CQCT-ND•	26.50	106.00	159.00	PCC080CQTR-ND	_	_	79.00/M	_	ECU-E1H080DCQ
		50	9.0	±.5pF	1.0	0.5	0.5	0.2	PCC090CQCT-ND•	26.50	106.00	159.00	PCC090CQTR-ND	_	_	79.00/M	_	ECU-E1H090DCQ
		50	10	±.5pF	1.0	0.5	0.5	0.2	PCC100CQCT-ND•	26.50	106.00	159.00	PCC100CQTR-ND	_	_	79.00/M	_	ECU-E1H100DCQ
		50 50	11 12	±5% ±5%	1.0	0.5	0.5	0.2	PCC110CQCT-ND PCC120CQCT-ND	26.50 26.50	106.00 106.00	159.00 159.00	PCC110CQTR-ND PCC120CQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1H110JCQ ECU-E1H120JCQ
		50	13	±5%	1.0	0.5	0.5	0.2	PCC120CQCT-ND	26.50	106.00	159.00	PCC120CQTR-ND	_	_	79.00/M	_	ECU-E1H120JCQ
		50	15	±5%	1.0	0.5	0.5	0.2	PCC150CQCT-ND•	26.50	106.00	159.00	PCC150CQTR-ND	_		79.00/M		ECU-E1H150JCQ
		50	16	±5%	1.0	0.5	0.5	0.2	PCC160CQCT-ND	26.50	106.00	159.00	PCC160CQTR-ND	_	_	79.00/M	_	ECU-E1H160JCQ
		50	18	±5%	1.0	0.5	0.5	0.2	PCC180CQCT-ND•	26.50	106.00	159.00	PCC180CQTR-ND	_	_	79.00/M	_	ECU-E1H180JCQ
		50	20	±5%	1.0	0.5	0.5	0.2	PCC200CQCT-ND	26.50	106.00	159.00	PCC200CQTR-ND			79.00/M	_	ECU-E1H200JCQ
		50	22	±5%	1.0	0.5	0.5	0.2	PCC220CQCT-ND•	26.50	106.00	159.00	PCC220CQTR-ND	_	_	79.00/M	_	ECU-E1H220JCQ
	NPO	50 50	24 27	±5% ±5%	1.0	0.5	0.5 0.5	0.2	PCC240CQCT-ND• PCC270CQCT-ND•	26.50 26.50	106.00 106.00	159.00 159.00	PCC240CQTR-ND PCC270CQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1H240JCQ ECU-E1H270JCQ
	INFO	50	30	±5%	1.0	0.5	0.5	0.2	PCC300CQCT-ND•	26.50	106.00	159.00	PCC300CQTR-ND	_	_	79.00/M	_	ECU-E1H300JCQ
		50	33	±5%	1.0	0.5	0.5	0.2	PCC330CQCT-ND•	26.50	106.00	159.00	PCC330CQTR-ND	_	_	79.00/M	_	ECU-E1H330JCQ
		50	36	±5%	1.0	0.5	0.5	0.2	PCC360CQCT-ND	26.50	106.00	159.00	PCC360CQTR-ND	_		79.00/M		ECU-E1H360JCQ
		50	39	±5%	1.0	0.5	0.5	0.2	PCC390CQCT-ND•	26.50	106.00	159.00	PCC390CQTR-ND	_	_	79.00/M	_	ECU-E1H390JCQ
		50	43	±5%	1.0	0.5	0.5	0.2	PCC430CQCT-ND	26.50	106.00	159.00	PCC430CQTR-ND	_	_	79.00/M	_	ECU-E1H430JCQ
		50	47	±5%	1.0	0.5	0.5	0.2	PCC470CQCT-ND•	26.50	106.00	159.00	PCC470CQTR-ND	_	_	79.00/M	_	ECU-E1H470JCQ
		50 50	51 56	±5%	1.0	0.5	0.5	0.2	PCC510CQCT-ND	26.50 26.50	106.00	159.00 159.00	PCC510CQTR-ND			79.00/M		ECU-E1H510JCQ
		50	62	±5% ±5%	1.0	0.5	0.5	0.2	PCC560CQCT-ND• PCC620CQCT-ND	26.50	106.00 106.00	159.00	PCC560CQTR-ND PCC620CQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1H560JCQ ECU-E1H620JCQ
		50	68	±5%	1.0	0.5	0.5	0.2	PCC680CQCT-ND•	26.50	106.00	159.00	PCC680CQTR-ND	_	_	79.00/M	_	ECU-E1H680JCQ
		50	75	±5%	1.0	0.5	0.5	0.2	PCC750CQCT-ND	26.50	106.00	159.00	PCC750CQTR-ND	_	_	79.00/M	_	ECU-E1H750JCQ
0402		50	82	±5%	1.0	0.5	0.5	0.2	PCC820CQCT-ND•	28.00	112.00	168.00	PCC820CQTR-ND			83.00/M		ECU-E1H820JCQ
		50	91	±5%	1.0	0.5	0.5	0.2	PCC910CQCT-ND	28.00	112.00	168.00	PCC910CQTR-ND	_	_	83.00/M	_	ECU-E1H910JCQ
		50 50	100 110	±5% ±5%	1.0	0.5 0.5	0.5 0.5	0.2	PCC101CQCT-ND• PCC111CQCT-ND	28.00 29.50	112.00 118.00	168.00 177.00	PCC101CQTR-ND PCC111CQTR-ND	_	_	83.00/M 87.00/M	_	ECU-E1H101JCQ ECU-E1H111JCQ
		50	120	±5%	1.0	0.5	0.5	0.2	PCC121CQCT-ND•	29.50	118.00	177.00	PCC121CQTR-ND		_	87.00/M	_	ECU-E1H1113CQ ECU-E1H121JCQ
		50	130	±5%	1.0	0.5	0.5	0.2	PCC131CQCT-ND	31.00	124.00	186.00	PCC131CQTR-ND	_	_	92.00/M	_	ECU-E1H131JCQ
		50	150	±5%	1.0	0.5	0.5	0.2	PCC151CQCT-ND•	31.00	124.00	186.00	PCC151CQTR-ND	_		92.00/M		ECU-E1H151JCQ
		50	160	±5%	1.0	0.5	0.5	0.2	PCC161CQCT-ND	33.00	132.00	198.00	PCC161CQTR-ND	_	_	98.00/M	_	ECU-E1H161JCQ
		50	180	±5%	1.0	0.5	0.5	0.2	PCC181CQCT-ND•	34.50	138.00	207.00	PCC181CQTR-ND	_	_	102.00/M	_	ECU-E1H181JCQ
		50 50	200 220	±5% ±5%	1.0	0.5 0.5	0.5 0.5	0.2	PCC201CQCT-ND• PCC221CQCT-ND•	36.50 38.50	146.00 154.00	219.00 231.00	PCC201CQTR-ND PCC221CQTR-ND	_	_	108.00/M 114.00/M	_	ECU-E1H201JCQ ECU-E1H221JCQ
			270		1.0	0.5	0.5	0.2	PCC271BQCT-ND•	26.50	106.00	159.00						
		25 25	330	±10% ±10%	1.0	0.5	0.5	0.2	PCC331BQCT-ND•	26.50	106.00	159.00	PCC271BQTR-ND PCC331BQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1E271KBQ ECU-E1E331KBQ
		25	391	±10%	1.0	0.5	0.5	0.2	PCC391BQCT-ND•	26.50	106.00	159.00	PCC391BQTR-ND	_	_	79.00/M	_	ECU-E1E391KBQ
		25	470	±10%	1.0	0.5	0.5	0.2	PCC471BQCT-ND•	26.50	106.00	159.00	PCC471BQTR-ND	_	_	79.00/M	_	ECU-E1E471KBQ
		25	560	±10%	1.0	0.5	0.5	0.2	PCC561BQCT-ND•	26.50	106.00	159.00	PCC561BQTR-ND			79.00/M		ECU-E1E561KBQ
		25	680	±10%	1.0	0.5	0.5	0.2	PCC681BQCT-ND•	26.50	106.00	159.00	PCC681BQTR-ND	_	=	79.00/M	_	ECU-E1E681KBQ
		25 25	820 1000	±10% ±10%	1.0	0.5	0.5	0.2	PCC821BQCT-ND• PCC102BQCT-ND•	26.50 26.50	106.00 106.00	159.00 159.00	PCC821BQTR-ND PCC102BQTR-ND	_	_	79.00/M 79.00/M	_	ECU-E1E821KBQ ECU-E1E102KBQ
		25	1200	±10%	1.0	0.5	0.5	0.2	PCC122BQCT-ND•	26.50	106.00	159.00	PCC122BQTR-ND	_	_	79.00/M	_	ECU-E1E122KBQ
	V7D	25	1500	±10%	1.0	0.5	0.5	0.2	PCC152BQCT-ND•	26.50	106.00	159.00	PCC152BQTR-ND	_	_	79.00/M	_	ECU-E1E152KBQ
	X7R	25	1800	±10%	1.0	0.5	0.5	0.2	PCC182BQCT-ND•	26.50	106.00	159.00	PCC182BQTR-ND	_	_	79.00/M		ECU-E1E182KBQ
		25	2200	±10%	1.0	0.5	0.5	0.2	PCC222BQCT-ND•	26.50	106.00	159.00	PCC222BQTR-ND	_	_	79.00/M	_	ECU-E1E222KBQ
		25	2700	±10%	1.0	0.5	0.5	0.2	PCC272BQCT-ND•	28.75	115.00	172.50	PCC272BQTR-ND	_	_	85.00/M	_	ECU-E1E272KBQ
		25 25	3300 3900	±10% ±10%	1.0	0.5 0.5	0.5 0.5	0.2	PCC332BQCT-ND• PCC392BQCT-ND•	31.05 32.20	124.20 128.80	186.30 193.20	PCC332BQTR-ND PCC392BQTR-ND	_	_	92.00/M 95.00/M	_	ECU-E1E332KBQ ECU-E1E392KBQ
		25	4700	±10% ±10%	1.0	0.5	0.5	0.2	PCC392BQCT-ND•	32.20	131.10	193.20	PCC392BQTR-ND PCC472BQTR-ND		_	97.00/M	_	ECU-E1E392KBQ ECU-E1E472KBQ
		16	5600	±10%	1.0	0.5	0.5	0.2	PCC562BQCT-ND•	31.05	124.20	186.30	PCC562BQTR-ND	_		92.00/M		ECU-E1C562KBQ
		16	6800	±10%	1.0	0.5	0.5	0.2	PCC682BQCT-ND•	32.20	128.80	193.20	PCC682BQTR-ND	_	_	95.00/M	_	ECU-E1C682KBQ
1		16	8200	±10%	1.0	0.5	0.5	0.2	PCC822BQCT-ND•	32.78	131.10	196.65	PCC822BQTR-ND	_	_	97.00/M	_	ECU-E1C822KBQ
		16	10000	±10%	1.0	0.5	0.5	0.2	PCC103BQCT-ND•	33.35	133.40	200.10	PCC103BQTR-ND			99.00/M		ECU-E1C103KBQ
	, <sub>E\</sub> ,	16	15000	+80%/-20%	1.0	0.5	0.5	0.2	PCC153FQCT-ND•	28.18	112.70	169.05	PCC153FQTR-ND	_	_	83.00/M	_	ECU-E1C153ZFQ
	Y5V	16 16	22000 33000	+80%/-20% +80%/-20%	1.0	0.5 0.5	0.5 0.5	0.2	PCC223FQCT-ND• PCC333FQCT-ND•	29.90 31.05	119.60 124.20	179.40 186.30	PCC223FQTR-ND PCC333FQTR-ND	_	_	89.00/M 92.00/M	_	ECU-E1C223ZFQ ECU-E1C333ZFQ
		10	53000	T0U70/-2U%	1.0	0.0	0.0	0.2	r ccsssrqc1-ND•	31.00	124.20	100.30	r GGSSSFQTR-ND	_		92.00/IVI		LOU-E IUSSSEFU

						Dime	ensions											
Size Code	Туре	WV	Cap. pF	Tolerance	L ±0.2	W ±0.2	Т	S ±0.3	Digi-Key Part No.	Cu 100	t Tape Pric	ing 1,000	Digi-Key Part No.	4,000	Tape & R 5,000	eel Pricing 10,000	12,000	Panasonic Part No.
		50 50	0.5	±0.25pF ±0.25pF	1.6 1.6	0.8 0.8	0.8	0.3 0.3	PCC0R5CVCT-ND• PCC010CVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC0R5CVTR-ND PCC010CVTR-ND	22.00/M 22.00/M		=	21.00/M 21.00/M	ECU-V1H0R5CCV ECU-V1H010CCV
		50	1.5	±0.25pF	1.6	0.8	0.8	0.3	PCC1R5CVCT-ND•	7.50	30.00	45.00	PCC1R5CVTR-ND	22.00/M	_	_	21.00/M	ECU-V1H1R5CCV
		50 50	3	±0.25pF ±0.25pF	1.6 1.6	0.8 0.8	0.8 0.8	0.3 0.3	PCC020CVCT-ND• PCC030CVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC020CVTR-ND PCC030CVTR-ND	22.00/M 22.00/M			21.00/M 21.00/M	ECU-V1H020CCV ECU-V1H030CCV
		50 50	4 5	±0.25pF ±0.25pF	1.6 1.6	0.8	0.8	0.3	PCC040CVCT-ND• PCC050CVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC040CVTR-ND PCC050CVTR-ND	22.00/M 22.00/M	_	_	21.00/M 21.00/M	ECU-V1H040CCV ECU-V1H050CCV
		50	6	±0.5pF	1.6	0.8	0.8	0.3	PCC060CVCT-ND•	7.50	30.00	45.00	PCC060CVTR-ND	22.00/M	_	_	21.00/M	ECU-V1H060DCV
		50 50	7	±0.5pF ±0.5pF	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC070CVCT-ND• PCC080CVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC070CVTR-ND PCC080CVTR-ND	22.00/M 22.00/M	_	_	21.00/M 21.00/M	ECU-V1H070DCV ECU-V1H080DCV
		50	9	±0.5pF	1.6	0.8	0.8	0.3	PCC090CVCT-ND•	7.50	30.00	45.00	PCC090CVTR-ND	22.00/M	_	_	21.00/M	ECU-V1H090DCV
		50 50	10 12	±1pF ±5%	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC100CVCT-ND• PCC120ACVCT-ND	7.50 7.50	30.00 30.00	45.00 45.00	PCC100CVTR-ND PCC120ACVTR-ND	22.00/M 22.00/M	_	_	21.00/M 21.00/M	ECU-V1H100FCV ECU-V1H120JCV
		50 50	15 15	±5% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC150ACVCT-ND• PCC150CVCT-ND	7.50 10.20	30.00 40.80	45.00 61.20	PCC150ACVTR-ND PCC150CVTR-ND	22.00/M 30.00/M	_	_	21.00/M 28.00/M	ECU-V1H150JCV ECU-V1H150KCV
		50	18	±5%	1.6	0.8	0.8	0.3	PCC180ACVCT-ND•	7.50	30.00	45.00	PCC180ACVTR-ND	22.00/M			21.00/M	ECU-V1H180JCV
		50 50	22 27	±5% ±5%	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC220ACVCT-ND• PCC270ACVCT-ND•	7.50 8.50	30.00 34.00	45.00 51.00	PCC220ACVTR-ND PCC270ACVTR-ND	22.00/M 25.00/M	_	_	21.00/M 23.00/M	ECU-V1H220JCV ECU-V1H270JCV
		50 50	33 39	±5% ±5%	1.6 1.6	0.8 0.8	0.8	0.3	PCC330ACVCT-ND• PCC390ACVCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC330ACVTR-ND PCC390ACVTR-ND	25.00/M 25.00/M	_	_	23.00/M 23.00/M	ECU-V1H330JCV ECU-V1H390JCV
		50	47	±5%	1.6	0.8	0.8	0.3	PCC470ACVCT-ND•	8.50	34.00	51.00	PCC470ACVTR-ND	25.00/M	_	_	23.00/M	ECU-V1H470JCV
		50 50	56 68	±5% ±5%	1.6 1.6	0.8	0.8	0.3	PCC560ACVCT-ND• PCC680ACVCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC560ACVTR-ND PCC680ACVTR-ND	25.00/M 25.00/M	_	_	23.00/M 23.00/M	ECU-V1H560JCV ECU-V1H680JCV
	NPO	50	82	±5%	1.6	0.8	0.8	0.3	PCC820ACVCT-ND•	8.50	34.00	51.00	PCC820ACVTR-ND	25.00/M	_	_	23.00/M	ECU-V1H820JCV
		50	100	±5% ±5%	1.6	0.8	0.8	0.3	PCC101ACVCT-ND• PCC121ACVCT-ND•	10.50	42.00 42.00	63.00 63.00	PCC101ACVTR-ND PCC121ACVTR-ND	31.00/M 31.00/M			29.00/M 29.00/M	ECU-V1H101JCV ECU-V1H121JCV
0603		50 50	150 150	±5% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC151ACVCT-ND• PCC151CVCT-ND	10.50 12.97	42.00 51.88	63.00 77.82	PCC151ACVTR-ND	31.00/M	_	_	29.00/M	ECU-V1H151JCV ECU-V1H151KCV
		50	180	±5%	1.6	8.0	0.8	0.3	PCC181ACVCT-ND•	10.50	42.00	63.00	PCC181ACVTR-ND	31.00/M	_	_	29.00/M	ECU-V1H181JCV
		50	220	±5% ±10%	1.6	0.8	0.8	0.3	PCC221ACVCT-ND• PCC221CVCT-ND	10.50	42.00 50.40	63.00 75.60	PCC221ACVTR-ND PCC221CVTR-ND	31.00/M 37.00/M			29.00/M 35.00/M	ECU-V1H221JCV ECU-V1H221KCV
		50 50	270 270	±5% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC271ACVCT-ND• PCC271CVCT-ND	11.00 14.40	44.00 57.60	66.00 86.40	PCC271ACVTR-ND PCC271CVTR-ND	33.00/M 43.00/M	_	_	30.00/M 39.00/M	ECU-V1H271JCV ECU-V1H271KCV
		50	330	±5%	1.6	0.8	0.8	0.3	PCC331ACVCT-ND•	12.50	50.00	75.00	PCC331ACVTR-ND	37.00/M	_	_	34.00/M	ECU-V1H331JCV
		50 50	330 390	±10% ±5%	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC331CVCT-ND PCC391ACVCT-ND•	15.00 14.00	60.00 56.00	90.00 84.00	PCC331CVTR-ND PCC391ACVTR-ND	44.00/M 41.00/M	_	_	41.00/M 38.00/M	ECU-V1H331KCV ECU-V1H391JCV
		50	220	±10%	1.6	0.8	0.8	0.3	PCC221BVCT-ND•	7.00	28.00	42.00	PCC221BVTR-ND	21.00/M	_	_	19.00/M	ECU-V1H221KBV
		50 50	270 330	±10% ±10%	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC271BVCT-ND• PCC331BVCT-ND•	7.00 7.00	28.00 28.00	42.00 42.00	PCC271BVTR-ND PCC331BVTR-ND	21.00/M 21.00/M	_	_	19.00/M 19.00/M	ECU-V1H271KBV ECU-V1H331KBV
		50 50	390 470	±10% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC391BVCT-ND• PCC471BVCT-ND•	7.00 7.50	28.00 30.00	42.00 45.00	PCC391BVTR-ND PCC471BVTR-ND	21.00/M 22.00/M	_	_	19.00/M 21.00/M	ECU-V1H391KBV ECU-V1H471KBV
		50	560	±10%	1.6	0.8	0.8	0.3	PCC561BVCT-ND•	7.50	30.00	45.00	PCC561BVTR-ND	22.00/M	-	_	21.00/M	ECU-V1H561KBV
		50	680 820	±10% ±10%	1.6 1.6	0.8 0.8	0.8 0.8	0.3	PCC681BVCT-ND• PCC821BVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC681BVTR-ND PCC821BVTR-ND	22.00/M 22.00/M	_	_	21.00/M 21.00/M	ECU-V1H681KBV ECU-V1H821KBV
		50 50	1000 1200	±10% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC102BVCT-ND• PCC122BVCT-ND•	7.50 7.50	30.00 30.00	45.00 45.00	PCC102BVTR-ND PCC122BVTR-ND	22.00/M 22.00/M	_	_	21.00/M 21.00/M	ECU-V1H102KBV ECU-V1H122KBV
		50	1500	±10%	1.6	0.8	0.8	0.3	PCC152BVCT-ND•	7.50	30.00	45.00	PCC152BVTR-ND	22.00/M			21.00/M	ECU-V1H152KBV
	X7R	50 50	1800 2200	±10% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC182BVCT-ND• PCC222BVCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC182BVTR-ND PCC222BVTR-ND	25.00/M 25.00/M	_	_	23.00/M 23.00/M	ECU-V1H182KBV ECU-V1H222KBV
		50	2700	±10%	1.6	0.8	0.8	0.3	PCC272BVCT-ND•	8.50	34.00	51.00	PCC272BVTR-ND	25.00/M	_	_	23.00/M	ECU-V1H272KBV
		50	3300	±10% ±10%	1.6	0.8	0.8	0.3	PCC332BVCT-ND• PCC392BVCT-ND•	9.00	36.00	54.00 57.00	PCC332BVTR-ND PCC392BVTR-ND	27.00/M 28.00/M			25.00/M 26.00/M	ECU-V1H332KBV ECU-V1H392KBV
		50 50	4700 5600	±10% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC472BVCT-ND• PCC562BVCT-ND•	10.50 10.50	42.00 42.00	63.00 63.00	PCC472BVTR-ND PCC562BVTR-ND	31.00/M 31.00/M	_	_	29.00/M 29.00/M	ECU-V1H472KBV ECU-V1H562KBV
		50	6800	±10%	1.6	8.0	0.8	0.3	PCC682BVCT-ND•	11.60	46.40	69.60	PCC682BVTR-ND	34.00/M	_	_	32.00/M	ECU-V1H682KBV
		50	8200 10000	±10%	1.6	0.8	0.8	0.3	PCC822BVCT-ND• PCC103BVCT-ND•	12.00	48.00 48.00	72.00 72.00	PCC822BVTR-ND PCC103BVTR-ND	36.00/M 36.00/M			33.00/M 33.00/M	ECU-V1H822KBV ECU-V1H103KBV
		50 50	12000 15000	±10% ±10%	1.6 1.6	0.8 0.8	0.8	0.3	PCC123BVCT-ND• PCC153BVCT-ND•	13.00 14.50	52.00 58.00	78.00 87.00	PCC123BVTR-ND PCC153BVTR-ND	39.00/M 43.00/M	_	_	36.00/M 40.00/M	ECU-V1H123KBV ECU-V1H153KBV
		25	18000	±10%	1.6	0.8	0.8	0.3	PCC183BVCT-ND•	20.00	80.00	120.00	PCC183BVTR-ND	59.00/M	_	_	55.00/M	ECU-V1E183KBV
		25 50	0.5	±10% ±0.25pF	1.6 2.0	0.8 1.25	0.8	0.3	PCC223BVCT-ND• PCC0R5CNCT-ND•	7.00	62.00 28.00	93.00 42.00	PCC223BVTR-ND PCC0R5CNTR-ND	46.00/M	21.00/M	19.00/M	42.00/M	ECU-V1E223KBV ECU-V1H0R5CCN
		50	1.0	±0.25pF	2.0	1.25	0.65	0.5	PCC010CNCT-ND•	7.00	28.00	42.00	PCC010CNTR-ND	_	21.00/M	19.00/M	_	ECU-V1H010CCN
		50 50	1.5 2.0	±0.25pF ±0.25pF	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC1R5CNCT-ND• PCC020CNCT-ND•	7.00 7.00	28.00 28.00	42.00 42.00	PCC1R5CNTR-ND PCC020CNTR-ND	_	21.00/M 21.00/M	19.00/M 19.00/M	_	ECU-V1H1R5CCN ECU-V1H020CCN
		50	3.0 4.0	±0.25pF ±0.25pF	2.0	1.25	0.65	0.5	PCC030CNCT-ND• PCC040CNCT-ND•	7.50	30.00	45.00 45.00	PCC030CNTR-ND PCC040CNTR-ND		22.00/M 22.00/M	21.00/M 21.00/M		ECU-V1H030CCN ECU-V1H040CCN
		50	5.0	±0.25pF	2.0	1.25	0.65	0.5	PCC050CNCT-ND•	7.50	30.00	45.00	PCC050CNTR-ND	_	22.00/M	21.00/M	_	ECU-V1H050CCN
		50	7.0	±0.5pF ±0.5pF	2.0	1.25	0.65	0.5	PCC060CNCT-ND• PCC070CNCT-ND•	7.50 7.50	30.00	45.00 45.00	PCC060CNTR-ND PCC070CNTR-ND	_	22.00/M 22.00/M	21.00/M 21.00/M	_	ECU-V1H060DCN ECU-V1H070DCN
		50 50	9.0	±0.5pF	2.0	1.25	0.65	0.5	PCC080CNCT-ND• PCC090CNCT-ND•	7.50 7.50	30.00	45.00 45.00	PCC080CNTR-ND		22.00/M	21.00/M 21.00/M		ECU-V1H080DCN ECU-V1H090DCN
		50	10	±0.5pF ±0.5pF	2.0	1.25	0.65	0.5	PCC100CNCT-ND•	7.50	30.00	45.00	PCC090CNTR-ND PCC100CNTR-ND	_	22.00/M 22.00/M	21.00/M	_	ECU-V1H100DCN
		50 50	12 15	±5% ±5%	2.0	1.25 1.25	0.65	0.5 0.5	PCC120CNCT-ND PCC150CNCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC120CNTR-ND PCC150CNTR-ND	_	25.00/M 25.00/M	23.00/M 23.00/M	_	ECU-V1H120JCN ECU-V1H150JCN
		50	18	±5%	2.0	1.25	0.65	0.5	PCC180CNCT-ND	8.50	34.00	51.00	PCC180CNTR-ND		25.00/M	23.00/M		ECU-V1H180JCN
	NPO	50 50	22 27	±5% ±5%	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC220CNCT-ND• PCC270CGCT-ND	8.50 8.50	34.00 34.00	51.00 51.00	PCC220CNTR-ND PCC270CGTR-ND	_	25.00/M 25.00/M	23.00/M 23.00/M	_	ECU-V1H220JCN ECU-V1H270JCG
	1	50 50	33 39	±5% ±5%	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC330CGCT-ND• PCC390CGCT-ND	8.50 8.50	34.00 34.00	51.00 51.00	PCC330CGTR-ND PCC390CGTR-ND	_	25.00/M 25.00/M	23.00/M 23.00/M	_	ECU-V1H330JCG ECU-V1H390JCG
		50	47	±5%	2.0	1.25	0.65	0.5	PCC470CGCT-ND•	8.50	34.00	51.00	PCC470CGTR-ND		25.00/M	23.00/M		ECU-V1H470JCG
0805		50 50	56 68	±5% ±5%	2.0	1.25 1.25	0.65	0.5 0.5	PCC560CGCT-ND PCC680CGCT-ND•	8.50 9.00	34.00 36.00	51.00 54.00	PCC560CGTR-ND PCC680CGTR-ND	_	25.00/M 27.00/M	23.00/M 25.00/M	_	ECU-V1H560JCG ECU-V1H680JCG
		50 50	82 100	±5%	2.0	1.25	0.65 0.65	0.5	PCC820CGCT-ND	9.00	36.00	54.00	PCC820CGTR-ND	_	27.00/M	25.00/M	_	ECU-V1H820JCG
		50	120	±5% ±5%	2.0	1.25 1.25	0.65	0.5 0.5	PCC101CGCT-ND• PCC121CGCT-ND•	9.00 9.00	36.00 36.00	54.00 54.00	PCC101CGTR-ND PCC121CGTR-ND		27.00/M 27.00/M	25.00/M 25.00/M		ECU-V1H101JCG ECU-V1H121JCG
		50 50	150 180	±5% ±5%	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC151CGCT-ND• PCC181CGCT-ND•	9.00 9.00	36.00 36.00	54.00 54.00	PCC151CGTR-ND PCC181CGTR-ND	_	27.00/M 27.00/M	25.00/M 25.00/M	_	ECU-V1H151JCG ECU-V1H181JCG
		50	220	±5%	2.0	1.25	0.65	0.5	PCC221CGCT-ND•	9.50	38.00	57.00	PCC221CGTR-ND	_	28.00/M	26.00/M	_	ECU-V1H221JCG
		50 50	270 330	±5% ±5%	2.0 2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC271CGCT-ND• PCC331CGCT-ND•	9.50 9.50	38.00 38.00	57.00 57.00	PCC271CGTR-ND PCC331CGTR-ND	_	28.00/M 28.00/M	26.00/M 26.00/M	_	ECU-V1H271JCG ECU-V1H331JCG
		50	390	±5%	2.0	1.25	0.65	0.5	PCC391CGCT-ND•	10.50	42.00	63.00	PCC391CGTR-ND	_	31.00/M	29.00/M	_	ECU-V1H391JCG
		50 50	470 560	±5% ±5%	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC471CGCT-ND• PCC561CGCT-ND•	11.50 12.50	46.00 50.00	69.00 75.00	PCC471CGTR-ND PCC561CGTR-ND	_	34.00/M 37.00/M	32.00/M 34.00/M	_	ECU-V1H471JCX ECU-V1H561JCX
		50 50	680 820	±5% ±5%	2.0	1.25 1.25	0.65 0.65	0.5 0.5	PCC681CGCT-ND• PCC821CGCT-ND•	13.00 14.00	52.00 56.00	78.00 84.00	PCC681CGTR-ND PCC821CGTR-ND	=	39.00/M 41.00/M	36.00/M 38.00/M	_	ECU-V1H681JCX ECU-V1H821JCX
		50	1000	±5%	2.0	1.25	0.65	0.5	PCC102CGCT-ND•	15.00	60.00	90.00	PCC102CGTR-ND		44.00/M	41.00/M		ECU-V1H102JCX
	VZD	50 50	220 270	±10% ±10%	2.0	1.25 1.25	0.65 0.65	0.5	PCC221BNCT-ND• PCC271BNCT-ND•	8.00 8.00	32.00 32.00	48.00 48.00	PCC221BNTR-ND PCC271BNTR-ND	_	24.00/M 24.00/M	22.00/M 22.00/M	_	ECU-V1H221KBN ECU-V1H271KBN
	X7R	50 50	330 390	±10% ±10%	2.0	1.25	0.65	0.5	PCC331BNCT-ND• PCC391BNCT-ND•	8.00	32.00 32.00	48.00 48.00	PCC331BNTR-ND PCC391BNTR-ND	_	24.00/M 24.00/M	22.00/M 22.00/M	_	ECU-V1H331KBN ECU-V1H391KBN
<u>                                     </u>		1 30	390	±1070	2.0	1.20	0.03	0.0	1 OCOSTONOT-NU	0.00	JZ.UU	40.00	חוו-או ואם ופנסט ו		24.UU/IVI	22.UU/IVI		LOO-AILISAIVDIA

						Dime	ensions											
Size Code	Туре	WV DC	Cap. pF	Tolerance	±0.2	W ±0.2	T Max.	S ±0.3	Digi-Key Part No.	Cu 100	t Tape Pric	ing 1,000	Digi-Key Part No.	4,000	Tape & R 5,000	eel Pricing 10,000	12,000	Panasonic Part No.
		50	470	±10%	2.0	1.25	0.65	0.5	PCC471BNCT-ND•	8.00	32.00	48.00	PCC471BNTR-ND	_	24.00/M	22.00/M		ECU-V1H471KBN
		50	560	±10%	2.0	1.25	0.65	0.5	PCC561BNCT-ND•	8.50	34.00	51.00	PCC561BNTR-ND	_	25.00/M	23.00/M	_	ECU-V1H561KBN
		50 50	680 820	±10% ±10%	2.0	1.25 1.25	0.65	0.5	PCC681BNCT-ND• PCC821BNCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC681BNTR-ND PCC821BNTR-ND	_	25.00/M 25.00/M	23.00/M 23.00/M	_	ECU-V1H681KBN ECU-V1H821KBN
0805		50	1000	±10%	2.0	1.25	0.65	0.5	PCC102BNCT-ND•	8.50	34.00	51.00	PCC102BNTR-ND	_	25.00/M	23.00/M		ECU-V1H102KBN
		50	1200	±10%	2.0	1.25	0.65	0.5	PCC122BNCT-ND•	8.50	34.00	51.00	PCC122BNTR-ND	_	25.00/M	23.00/M	_	ECU-V1H122KBN
		50	1500	±10%	2.0	1.25	0.65	0.5	PCC152BNCT-ND•	8.50	34.00	51.00	PCC152BNTR-ND	_	25.00/M	23.00/M	_	ECU-V1H152KBN
		50 50	1800 2200	±10% ±10%	2.0	1.25 1.25	0.65 0.65	0.5	PCC182BNCT-ND• PCC222BNCT-ND•	8.50 8.50	34.00 34.00	51.00 51.00	PCC182BNTR-ND PCC222BNTR-ND	_	25.00/M 25.00/M	23.00/M 23.00/M	_	ECU-V1H182KBN ECU-V1H222KBN
	X7R	50	2700	±10%	2.0	1.25	0.65	0.5	PCC272BNCT-ND•	9.50	38.00	57.00	PCC272BNTR-ND	_	28.00/M	26.00/M	_	ECU-V1H272KBN
		50	3300	±10%	2.0	1.25	0.65	0.5	PCC332BNCT-ND•	9.50	38.00	57.00	PCC332BNTR-ND	_	28.00/M	26.00/M	_	ECU-V1H332KBN
		50 50	3900 4700	±10% +10%	2.0	1.25	0.65	0.5	PCC392BNCT-ND• PCC472BNCT-ND•	9.50 9.50	38.00 38.00	57.00 57.00	PCC392BNTR-ND PCC472BNTR-ND	_	28.00/M 28.00/M	26.00/M 26.00/M	_	ECU-V1H392KBN ECU-V1H472KBG
		50	5600	±10% ±10%	2.0	1.25	0.65	0.5	PCC562BNCT-ND•	10.00	40.00	60.00	PCC562BNTR-ND	_	30.00/M	27.00/M	_	ECU-V1H562KBG
		50	6800	±10%	2.0	1.25	0.65	0.5	PCC682BNCT-ND•	10.00	40.00	60.00	PCC682BNTR-ND	_	30.00/M	27.00/M	_	ECU-V1H682KBG
		50	8200	±10%	2.0	1.25	0.65	0.5	PCC822BNCT-ND•	10.50	42.00	63.00	PCC822BNTR-ND	_	31.00/M	29.00/M	_	ECU-V1H822KBG
		50 50	10000 12000	±10% ±10%	2.0	1.25	0.65	0.5	PCC103BNCT-ND• PCC123BGCT-ND•	10.50 11.00	42.00 44.00	63.00 66.00	PCC103BNTR-ND PCC123BGTR-ND	_	31.00/M 33.00/M	29.00/M 30.00/M	_	ECU-V1H103KBG ECU-V1H123KBX
		50	15000	±10%	2.0	1.25	0.65	0.5	PCC153BGCT-ND•	12.00	48.00	72.00	PCC123BGTR-ND	_	36.00/M	33.00/M	=	ECU-V1H153KBX
		50	18000	±10%	2.0	1.25	0.65	0.5	PCC183BGCT-ND•	13.00	52.00	78.00	PCC183BGTR-ND	_	39.00/M	36.00/M	_	ECU-V1H183KBX
		50	22000	±10%	2.0	1.25	0.65	0.5	PCC223BGCT-ND•	14.00	56.00	84.00	PCC223BGTR-ND		41.00/M	38.00/M		ECU-V1H223KBX
$\vdash$		50	27000	±10% ±0.25pF	3.2	1.25	1.0 0.65	0.5	PCC273BGCT-ND• PCC0R5CCT-ND•	15.50 10.01	62.00 40.02	93.00	PCC273BGTR-ND PCC0R5CTR-ND	46.00/M	30.00/M	27.00/M	42.00/M	ECU-V1H273KBX ECU-V1H0R5CCM
		50	1.0	±0.25pF ±0.25pF	3.2	1.6	0.65	0.6	PCC010CCT-ND•	10.01	40.02	60.03	PCC010CTR-ND	_	30.00/M	28.00/M	_	ECU-V1H010CCM
		50	1.5	±0.25pF	3.2	1.6	0.65	0.6	PCC1R5CCT-ND•	10.12	40.48	60.72	PCC1R5CTR-ND	_	30.00/M	28.00/M	_	ECU-V1H1R5CCM
		50	1.8	±0.25pF	3.2	1.6	0.65	0.6	PCC1R8CCT-ND	12.00	48.00	72.00	PCC1R8CTR-ND	_	36.00/M	33.00/M	_	ECU-V1H1R8CCM
		50	2.7	±0.25pF ±0.25pF	3.2	1.6	0.65	0.6	PCC2R2CCT-ND• PCC2R7CCT-ND•	10.55 10.55	42.20 42.20	63.30 63.30	PCC2R2CTR-ND PCC2R7CTR-ND		31.00/M 31.00/M	29.00/M 29.00/M		ECU-V1H2R2CCM ECU-V1H2R7CCM
		50	3.3	±0.25pF	3.2	1.6	0.65	0.6	PCC3R3CCT-ND•	10.56	42.24	63.36	PCC3R3CTR-ND	_	31.00/M	29.00/M	_	ECU-V1H3R3CCM
		50	3.9	±0.25pF	3.2	1.6	0.65	0.6	PCC3R9CCT-ND•	10.56	42.24	63.36	PCC3R9CTR-ND	_	31.00/M	29.00/M	_	ECU-V1H3R9CCM
		50 50	4.7 5.1	±0.25pF	3.2	1.6 1.6	0.65 0.65	0.6	PCC4R7CCT-ND• PCC5R1CCT-ND•	10.56 10.56	42.24 42.24	63.36 63.36	PCC4R7CTR-ND PCC5R1CTR-ND	_	31.00/M 31.00/M	29.00/M 29.00/M	_	ECU-V1H4R7CCM ECU-V1H5R1CCM
		50	5.6	±0.25pF ±0.25pF	3.2	1.6	0.65	0.6	PCC5R1CCT-ND•	10.56	42.24	63.36	PCC5R1CTR-ND		31.00/M	29.00/M		ECU-V1H5R1CCM
		50	6.8	±0.5pF	3.2	1.6	0.65	0.6	PCC6R8CCT-ND•	10.59	42.34	63.51	PCC6R8CTR-ND	_	31.00/M	29.00/M	_	ECU-V1H6R8DCM
		50	7.5	±0.5pF	3.2	1.6	0.65	0.6	PCC7R5CCT-ND•	10.59	42.34	63.51	PCC7R5CTR-ND	_	31.00/M	29.00/M	_	ECU-V1H7R5DCM
		50 50	8.2 9.1	±0.5pF ±0.5pF	3.2	1.6 1.6	0.65	0.6	PCC8R2CCT-ND• PCC9R1CCT-ND•	10.59 10.56	42.34 42.24	63.51 63.36	PCC8R2CTR-ND PCC9R1CTR-ND	_	31.00/M 31.00/M	29.00/M 29.00/M	_	ECU-V1H8R2DCM ECU-V1H9R1DCM
	NPO	50	10	±0.5pF	3.2	1.6	0.65	0.6	PCC100CCT-ND•	10.15	40.58	60.87	PCC100CTR-ND		30.00/M	28.00/M		ECU-V1H100DCM
	0	50	12	±5%	3.2	1.6	0.65	0.6	PCC120CCT-ND•	10.88	43.52	65.28	PCC120CTR-ND	_	32.00/M	30.00/M	_	ECU-V1H120JCM
		50	15	±5%	3.2	1.6	0.65	0.6	PCC150CCT-ND•	10.87	43.48	65.22	PCC150CTR-ND	_	32.00/M	30.00/M	_	ECU-V1H150JCM
		50 50	18 20	±5% +5%	3.2	1.6 1.6	0.65	0.6	PCC180CCT-ND• PCC200CCT-ND•	10.87 10.18	43.48 40.70	65.22 61.05	PCC180CTR-ND PCC200CTR-ND	_	32.00/M 30.00/M	30.00/M 28.00/M	_	ECU-V1H180JCM ECU-V1H200JCM
		50	22	±5%	3.2	1.6	0.65	0.6	PCC220CCT-ND•	10.18	40.70	61.05	PCC220CTR-ND	_	30.00/M	28.00/M		ECU-V1H220JCM
		50	27	±5%	3.2	1.6	0.65	0.6	PCC270CCT-ND•	10.87	43.48	65.22	PCC270CTR-ND	_	32.00/M	30.00/M	_	ECU-V1H270JCM
		50	33	±5%	3.2	1.6	0.65	0.6	PCC330CCT-ND•	11.33	45.32	67.98	PCC330CTR-ND	_	34.00/M	31.00/M	=	ECU-V1H330JCM
		50 50	39 47	±5% ±5%	3.2	1.6 1.6	0.65	0.6	PCC390CCT-ND• PCC470CCT-ND•	10.88 12.70	43.52 50.78	65.28 76.17	PCC390CTR-ND PCC470CTR-ND	_	32.00/M 38.00/M	30.00/M 35.00/M	_	ECU-V1H390JCM ECU-V1H470JCM
		50	51	±5%	3.2	1.6	0.65	0.6	PCC510CCT-ND•	12.70	50.78	76.17	PCC510CTR-ND	_	38.00/M	35.00/M	_	ECU-V1H510JCM
		50	56	±5%	3.2	1.6	0.65	0.6	PCC560CCT-ND•	12.70	50.78	76.17	PCC560CTR-ND	_	38.00/M	35.00/M	_	ECU-V1H560JCM
		50 50	68 100	±5% ±5%	3.2	1.6 1.6	0.65	0.6	PCC680CCT-ND• PCC101CCT-ND•	12.70 12.17	50.78 48.66	76.17 72.99	PCC680CTR-ND PCC101CTR-ND	_	38.00/M 36.00/M	35.00/M 33.00/M	_	ECU-V1H680JCM ECU-V1H101JCH
		50	120	±5%	3.2	1.6	0.65	0.6	PCC121CCT-ND•	12.17	48.58	72.87	PCC121CTR-ND	_	36.00/M	33.00/M	_	ECU-V1H121JCH
1206		50	1000	±5%	3.2	1.6	0.65	0.6	PCC102CCT-ND•	20.98	83.90	125.85	PCC102CTR-ND	_	62.00/M	57.00/M	_	ECU-V1H102JCH
1206		50	220	±10%	3.2	1.6	0.65	0.6	PCC221BCT-ND•	9.05	36.18	54.27	PCC221BTR-ND	_	27.00/M	25.00/M	_	ECU-V1H221KBM
		50 50	270 330	±10% ±10%	3.2	1.6 1.6	0.65 0.65	0.6	PCC271BCT-ND• PCC331BCT-ND•	9.66 10.70	38.64 42.80	57.96 64.20	PCC271BTR-ND PCC331BTR-ND	_	29.00/M 30.00/M	26.00/M 28.00/M	_	ECU-V1H271KBM ECU-V1H331KBM
		50	390	±10%	3.2	1.6	0.65	0.6	PCC391BCT-ND•	9.66	38.64	57.96	PCC391BTR-ND	_	29.00/M	26.00/M	_	ECU-V1H391KBM
		50	470	±10%	3.2	1.6	0.65	0.6	PCC471BCT-ND•	10.08	40.32	60.48	PCC471BTR-ND		32.00/M	30.00/M		ECU-V1H471KBM
		50 50	560 680	±10% ±10%	3.2	1.6 1.6	0.65 0.65	0.6	PCC561BCT-ND• PCC681BCT-ND•	10.08 10.03	40.32 40.12	60.48 60.18	PCC561BTR-ND PCC681BTR-ND	_	30.00/M 30.00/M	28.00/M 27.00/M	_	ECU-V1H561KBM ECU-V1H681KBM
		50	820	±10% ±10%	3.2	1.6	0.65	0.6	PCC821BCT-ND•	10.03	40.12	60.18	PCC821BTR-ND		30.00/M	27.00/M 27.00/M	_	ECU-V1H681KBM ECU-V1H821KBM
		50	1000	±10%	3.2	1.6	0.65	0.6	PCC102BCT-ND•	10.50	42.00	63.00	PCC102BTR-ND	_	31.00/M	29.00/M	_	ECU-V1H102KBM
		50	1200	±10%	3.2	1.6	0.65	0.6	PCC122BCT-ND•	10.50	42.00	63.00	PCC122BTR-ND		31.00/M	29.00/M	_	ECU-V1H122KBM
		50 50	1500 1800	±10% +10%	3.2 3.2	1.6 1.6	0.65	0.6	PCC152BCT-ND• PCC182BCT-ND•	10.50 10.50	42.00 42.00	63.00 63.00	PCC152BTR-ND PCC182BTR-ND	_	31.00/M 31.00/M	29.00/M 29.00/M	_	ECU-V1H152KBM ECU-V1H182KBM
		50	2200	±10%	3.2	1.6	0.65	0.6	PCC222BCT-ND•	9.83	39.32	58.98	PCC222BTR-ND	_	29.00/M	27.00/M	_	ECU-V1H222KBM
		50	2700	±10%	3.2	1.6	0.65	0.6	PCC272BCT-ND•	10.63	42.50	63.75	PCC272BTR-ND	_	31.00/M	29.00/M	_	ECU-V1H272KBM
	X7R	50	3300	±10%	3.2	1.6	0.65	0.6	PCC332BCT-ND•	10.58	42.32	63.48	PCC332BTR-ND		31.00/M	29.00/M		ECU-V1H332KBM
		50 50	3900 4700	±10% ±10%	3.2	1.6 1.6	0.65	0.6	PCC392BCT-ND• PCC472BCT-ND•	11.64 11.77	46.56 47.08	69.84 70.62	PCC392BTR-ND PCC472BTR-ND	_	34.00/M 35.00/M	32.00/M 32.00/M	_	ECU-V1H392KBM ECU-V1H472KBM
		50	5600	±10%	3.2	1.6	0.65	0.6	PCC562BCT-ND•	12.17	48.66	72.99	PCC562BTR-ND	_	36.00/M	33.00/M	_	ECU-V1H562KBM
		50	6800	±10%	3.2	1.6	0.65	0.6	PCC682BCT-ND•	12.57	50.26	75.39	PCC682BTR-ND	_	37.00/M	34.00/M	_	ECU-V1H682KBM
		50	8200 10000	±10%	3.2	1.6	0.65	0.6	PCC822BCT-ND• PCC103BCT-ND•	12.96 13.25	51.84	77.76 79.50	PCC822BTR-ND PCC103BTR-ND		38.00/M 39.00/M	36.00/M 36.00/M		ECU-V1H822KBM ECU-V1H103KBM
		50	12000	±10% ±10%	3.2	1.6	0.65	0.6	PCC103BCT-ND•	13.25	55.90	79.50 83.85	PCC103BTR-ND PCC123BTR-ND	_	41.00/M	36.00/M	=	ECU-V1H103KBM ECU-V1H123KBM
		50	15000	±10%	3.2	1.6	0.65	0.6	PCC153BCT-ND•	14.84	59.36	89.04	PCC153BTR-ND	_	44.00/M	41.00/M	_	ECU-V1H153KBM
		50	18000	±10%	3.2	1.6	0.65	0.6	PCC183BCT-ND•	17.50	70.00	105.00	PCC183BTR-ND	_	52.00/M	48.00/M	_	ECU-V1H183KBM
		50	22000 27000	±10% ±10%	3.2	1.6	0.65	0.6	PCC223BCT-ND• PCC273BCT-ND•	16.32 18.58	65.28 74.32	97.92 111.48	PCC223BTR-ND PCC273BTR-ND		48.00/M 55.00/M	45.00/M 51.00/M		ECU-V1H223KBM ECU-V1H273KBW
		50	33000	±10% ±10%	3.2	1.6	0.65	0.6	PCC333BCT-ND•	19.95	79.80	111.48	PCC333BTR-ND	_	59.00/M	55.00/M	_	ECU-V1H273KBW
		50	39000	±10%	3.2	1.6	0.65	0.6	PCC393BCT-ND•	20.36	81.44	122.16	PCC393BTR-ND	_	60.00/M	56.00/M	_	ECU-V1H393KBW
		50 50	47000 100000	±10%	3.2	1.6 1.6	0.65	0.6	PCC473BCT-ND• PCC104BCT-ND•	20.24 35.50	80.96	121.44 213.00	PCC473BTR-ND PCC104BTR-ND	 105.00/M	60.00/M	55.00/M	97.00/M	ECU-V1H473KBW ECU-V1H104KBW
$\Box$		1 30	100000	±10%	3.2	1.0	1.0	0.0	1 CC 104DC 1-ND*	33.30	142.00	213.00	F GG TU4DTR-IND	103.00/101			97.00/IVI	LOU-VIRTUANBVV

Notebook Style Kit Boxes Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- PCC9-KIT-ND 10 each of values denoted 0603/NPO Series (300 total pieces)... • PCC5-KIT-ND 10 each of values denoted 1206/NPO Series (300 total pieces).......\$34.95 \$29.95 PCC10-KIT-ND 10 each of values denoted 0603/X7R Series (250 total pieces)
   PCC11-KIT-ND 10 each of values denoted 0402/NPO Series (300 total pieces).
- PCC6-KIT-ND
   10 each of values denoted 1206/X7R Series (300 total pieces)
   \$49.95

   PCC7-KIT-ND
   10 each of values denoted 1206/X7R Series (300 total pieces)
   \$49.95

   PCC8-KIT-ND
   10 each of values denoted 0805/XPR Series (300 total pieces)
   \$29.95

   PCC8-KIT-ND
   10 each of values denoted 0805/X7R Series (260 total pieces)
   \$29.95
   \$64.95

## Panasonic. **NEW!** High Voltage Ceramic Capacitors (SMD)

Features: • Resin molded type for reflow solderings. • High reliability through disc capacitor element molded construction. • Excellent "Voltage vs. Temperature Rise" through low loss ceramic dielectric. • Temperature stable (SL/GP). Recommended Applications: • Output circuit of LCD backlighting inverter. • Snubber circuit of switching power supply. • High volt. circuit. • Specifications: • Operating Temp. Range: -25 to 165°C. • Dielectric Withstanding Voltage: 200% of the rated voltage conds. • Capacitance: 1MHz, 1-5 Vrms and 20°C. • Or Dissipation Factor: C < 30pF: Q ≥ 400+20 C (C:cap.PF), C ≥ 30 pF: Q ≥ 1000 at 1 MHz, 1-5 Vrms and 20°C. • Insulation Resistance: 10000 MΩ min. at 500 VDC & 1 min. electrification. • Temperature Coefficient: +350 to -1000 pm/°C.

Volt-	Capac-	Capac.	Temp.	Digi-Key	Cut	Tape Price	ing	Digi-Key	Tap	e & Reel Prici	ng	Panasonic
age	itance	Tol. %	Char.	Part No.	1	10	100	Part No.	2,000	6,000	10,000	Part No.
3KVDC	10pf	±5	SL/GP	PCC100JCT-ND	2.46	19.31	140.45	PCC100JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F100JG
3KVDC	12pf	±5	SL/GP	PCC120JCT-ND	2.46	19.31	140.45	PCC120JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F120JG
3KVDC	15pf	±5	SL/GP	PCC150JCT-ND	2.46	19.31	140.45	PCC150JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F150JG
3KVDC	18pf	±5	SL/GP	PCC180JCT-ND	2.46	19.31	140.45	PCC180JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F180JG
3KVDC	22pf	±5	SL/GP	PCC220JCT-ND	2.46	19.31	140.45	PCC220JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F220JG
3KVDC	27pf	±5	SL/GP	PCC270JCT-ND	2.46	19.31	140.45	PCC270JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F270JG
3KVDC	33pf	±5	SL/GP	PCC330JCT-ND	2.46	19.31	140.45	PCC330JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F330JG
3KVDC	39pf	±5	SL/GP	PCC390JCT-ND	2.46	19.31	140.45	PCC390JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F390JG
3KVDC	47pf	±5	SL/GP	PCC470JCT-ND	2.46	19.31	140.45	PCC470JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F470JG
3KVDC	56pf	±5	SL/GP	PCC560JCT-ND	2.46	19.31	140.45	PCC560JTR-ND	1035.00/M	998.00/M	924.00/M	ECC-S3F560JG

