

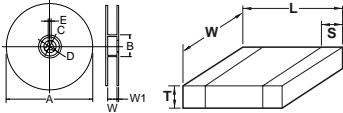
# Panasonic Multilayer Ceramic Chip Capacitors 0402, 0603, 0805 & 1206

**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. • Telecommunication equipment. • Computers. • Electronic wrist watches and cameras. • TV tuner. • Video cameras. • Radio and Tape Recorder.

**RELATED STANDARDS:**

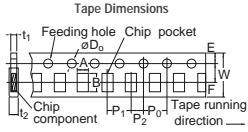
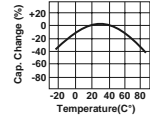
• J15 C 6429 • EIA RS199 • 1 EC Pub. 384-10.  
 Operating Temperature Range: -55 to 125°C.  
 Insulation Resistance (IR): IR > 1000 MΩ or 500/C MΩ, whichever is less (C\*\*\*Rated capacitance in μF).



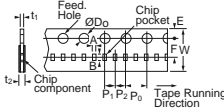
Reel Diagram

Series	A	B	C	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							
1206							

All dimensions shown in mm.



0402 Series - Tape Dimensions

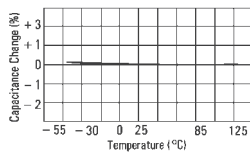


Tape Diagram

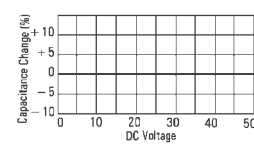
Series	A	B	W	F	E	P1	P2	P0	D0	t1	t2
0402	0.65 ± 0.5	1.15 ± 0.5	8.0 ± 2	3.5 ± .05	1.75 ± 1	2.00 ± 0.05	2.0 ± 0.5	4.0 ± 1	1.5 ± 1 - 0	0.7 max.	1.0 max.
0603	1.1 ± 0.1	1.9 ± 0.1	26.50	106.00	159.00	26.50	106.00	159.00	26.50	106.00	159.00
0805	1.65 ± 0.2	2.4 ± 0.2	8.0 ± 2	3.5 ± .05	1.75 ± 1	4.0 ± 1	2.0 ± 0.5	4.0 ± 1	1.5 ± 1 - 0	1.1 max.	1.4 max.
1206	2.0 ± 2	3.6 ± 2									

**NPO Dielectric Type Specifications:** • Operating temperature range: -55°C ~ +125°C. • Capacitance range: 1.0 pF ~ 1000 pF. • Voltage: 50 V DC. • Q factor (1 MHz, 0.5 ~ 5 V rms, 25°C): Capacitance 30 pF... 400 + 20C min. 30 pF Capacitance 1,000 pF... 1,000 min. • Dissipation factor (1 kHz, 0.5 ~ 5 V rms, 25°C): Capacitance 1,000 pF... 0.2% max. • Insulation resistance (rated voltage applied at 25°C): 10,000 MΩ min.

Temperature Coefficient

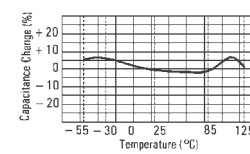


Voltage Coefficient

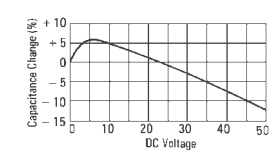


**X7R Dielectric Type Specifications:** • Operating temperature range: -55°C ~ +125°C. • Capacitance range (1 kHz, 1.0 V rms, 25°C): 220 pF ~ 47,000 pF. • Voltage: 50 V DC. • Dissipation factor (1 kHz, 1.0 V rms, 25°C): 2.5% max. • Insulation resistance (rated voltage applied at 25°C): 10,000 MΩ min. or 500 MΩxμF min. whichever is the smaller.

Temperature Coefficient



Voltage Coefficient



Size Code	Type	WV DC	Cap. pF	Tolerance	Dimensions				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing			Panasonic Part No.
					±0.2	W ±0.2	T Max.	S		100	500	1,000		4,000	5,000	12,000	
0402	NPO	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	4.0	±25pF	1.0	0.5	0.5	0.2	PCC040CQCT-ND	26.50	106.00	159.00	PCC040CQTR-ND	—	—	79.00/M	ECU-E1H040CCQ
		50	5.0	±25pF	1.0	0.5	0.5	0.2	PCC050CQCT-ND	26.50	106.00	159.00	PCC050CQTR-ND	—	—	79.00/M	ECU-E1H050CCQ
		50	6.0	±5pF	1.0	0.5	0.5	0.2	PCC060CQCT-ND	26.50	106.00	159.00	PCC060CQTR-ND	—	—	79.00/M	ECU-E1H060CCQ
		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-E1H070CCQ
		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-E1H080CCQ
		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-E1H090CCQ
		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-E1H100CCQ
		50	11	±5%	1.0	0.5	0.5	0.2	PCC110CQCT-ND	26.50	106.00	159.00	PCC110CQTR-ND	—	—	79.00/M	ECU-E1H110CCQ
		50	12	±5%	1.0	0.5	0.5	0.2	PCC120CQCT-ND	26.50	106.00	159.00	PCC120CQTR-ND	—	—	79.00/M	ECU-E1H120CCQ
		50	13	±5%	1.0	0.5	0.5	0.2	PCC130CQCT-ND	26.50	106.00	159.00	PCC130CQTR-ND	—	—	79.00/M	ECU-E1H130CCQ
		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-E1H150CCQ
		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-E1H160CCQ
		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-E1H180CCQ
		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-E1H200CCQ
		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-E1H220CCQ
		50	24	±5%	1.0	0.5	0.5	0.2	PCC240CQCT-ND	26.50	106.00	159.00	PCC240CQTR-ND	—	—	79.00/M	ECU-E1H240CCQ
		50	27	±5%	1.0	0.5	0.5	0.2	PCC270CQCT-ND	26.50	106.00	159.00	PCC270CQTR-ND	—	—	79.00/M	ECU-E1H270CCQ
		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-E1H300CCQ
		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-E1H330CCQ
		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-E1H360CCQ
		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-E1H390CCQ
		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-E1H430CCQ
		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-E1H470CCQ
		50	51	±5%	1.0	0.5	0.5	0.2	PCC510CQCT-ND	26.50	106.00	159.00	PCC510CQTR-ND	—	—	79.00/M	ECU-E1H510CCQ
		50	56	±5%	1.0	0.5	0.5	0.2	PCC560CQCT-ND	26.50	106.00	159.00	PCC560CQTR-ND	—	—	79.00/M	ECU-E1H560CCQ
		50	62	±5%	1.0	0.5	0.5	0.2	PCC620CQCT-ND	26.50	106.00	159.00	PCC620CQTR-ND	—	—	79.00/M	ECU-E1H620CCQ
		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-E1H680CCQ
		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-E1H750CCQ
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-E1H820CCQ		
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-E1H910CCQ		
50	100	±5%	1.0	0.5	0.5	0.2	PCC101CQCT-ND	28.00	112.00	168.00	PCC101CQTR-ND	—	—	83.00/M	ECU-E1H101CCQ		
50	110	±5%	1.0	0.5	0.5	0.2	PCC111CQCT-ND	29.50	118.00	177.00	PCC111CQTR-ND	—	—	87.00/M	ECU-E1H111CCQ		
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-E1H121CCQ		
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-E1H131CCQ		
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-E1H151CCQ		
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-E1H161CCQ		
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-E1H181CCQ		
50	200	±5%	1.0	0.5	0.5	0.2	PCC201CQCT-ND	36.50	146.00	219.00	PCC201CQTR-ND	—	—	108.00/M	ECU-E1H201CCQ		
50	220	±5%	1.0	0.5	0.5	0.2	PCC221CQCT-ND	38.50	154.00	231.00	PCC221CQTR-ND	—	—	114.00/M	ECU-E1H221CCQ		
25	270	±10%	1.0	0.5	0.5	0.2	PCC271BQCT-ND	26.50	106.00	159.00	PCC271BQTR-ND	—	—	79.00/M	ECU-E1E271KBQ		
25	330	±10%	1.0	0.5	0.5	0.2	PCC331BQCT-ND	26.50	106.00	159.00	PCC331BQTR-ND	—	—	79.00/M	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	820	±10%	1.0	0.5	0.5	0.2	PCC821BQCT-ND	26.50	106.00	159.00	PCC821BQTR-ND	—	—	79.00/M	ECU-E1E821KBQ		
25	1000	±10%	1.0	0.5	0.5	0.2	PCC102BQCT-ND	26.50	106.00	159.00	PCC102BQTR-ND	—	—	79.00/M	ECU-E1E102KBQ		
25	1200	±10%	1.0	0.5	0.5	0.2	PCC122BQCT-ND	26.50	106.00	159.00							

Size Code	Type	WV DC	Cap. pF	Tolerance	Dimensions				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing			Panasonic Part No.			
					L ±0.2	W ±0.2	T Max.	S ±0.3		100	500	1,000		4,000	5,000	10,000		12,000		
0603	NPO	50	0.5	±0.25pF	1.6	0.8	0.8	0.3	PCC0R5CVCT-ND	7.50	30.00	45.00	PCC0R5CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H0R5CCV		
		50	1	±0.25pF	1.6	0.8	0.8	0.3	PCC010CVCT-ND	7.50	30.00	45.00	PCC010CVTR-ND	22.00/M	—	—	21.00/M	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	2	±0.25pF	1.6	0.8	0.8	0.3	PCC020CVCT-ND	7.50	30.00	45.00	PCC020CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H020CCV		
		50	3	±0.25pF	1.6	0.8	0.8	0.3	PCC030CVCT-ND	7.50	30.00	45.00	PCC030CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H030CCV		
		50	4	±0.25pF	1.6	0.8	0.8	0.3	PCC040CVCT-ND	7.50	30.00	45.00	PCC040CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H040CCV		
		50	5	±0.25pF	1.6	0.8	0.8	0.3	PCC050CVCT-ND	7.50	30.00	45.00	PCC050CVTR-ND	22.00/M	—	—	21.00/M	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-V1H060CCV		
		50	7	±0.5pF	1.6	0.8	0.8	0.3	PCC070CVCT-ND	7.50	30.00	45.00	PCC070CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H070CCV		
		50	8	±0.5pF	1.6	0.8	0.8	0.3	PCC080CVCT-ND	7.50	30.00	45.00	PCC080CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H080CCV		
		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-V1H090CCV		
		50	10	±1pF	1.6	0.8	0.8	0.3	PCC100CVCT-ND	7.50	30.00	45.00	PCC100CVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H100CCV		
		50	12	±5%	1.6	0.8	0.8	0.3	PCC120ACVCT-ND	7.50	30.00	45.00	PCC120ACVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H120JCV		
		50	15	±5%	1.6	0.8	0.8	0.3	PCC150ACVCT-ND	7.50	30.00	45.00	PCC150ACVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H150JCV		
		50	15	±10%	1.6	0.8	0.8	0.3	PCC150CVCT-ND	10.20	40.80	61.20	PCC150CVTR-ND	30.00/M	—	—	28.00/M	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	22	±5%	1.6	0.8	0.8	0.3	PCC220ACVCT-ND	7.50	30.00	45.00	PCC220ACVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H220JCV		
		50	27	±5%	1.6	0.8	0.8	0.3	PCC270ACVCT-ND	8.50	34.00	51.00	PCC270ACVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H270JCV		
		50	33	±5%	1.6	0.8	0.8	0.3	PCC330ACVCT-ND	8.50	34.00	51.00	PCC330ACVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H330JCV		
		50	39	±5%	1.6	0.8	0.8	0.3	PCC390ACVCT-ND	8.50	34.00	51.00	PCC390ACVTR-ND	25.00/M	—	—	23.00/M	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	56	±5%	1.6	0.8	0.8	0.3	PCC560ACVCT-ND	8.50	34.00	51.00	PCC560ACVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H560JCV		
		50	68	±5%	1.6	0.8	0.8	0.3	PCC680ACVCT-ND	8.50	34.00	51.00	PCC680ACVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H680JCV		
		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%	1.6	0.8	0.8	0.3	PCC101ACVCT-ND	10.50	42.00	63.00	PCC101ACVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H101JCV		
		50	120	±5%	1.6	0.8	0.8	0.3	PCC121ACVCT-ND	10.50	42.00	63.00	PCC121ACVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H121JCV		
		50	150	±5%	1.6	0.8	0.8	0.3	PCC151ACVCT-ND	10.50	42.00	63.00	PCC151ACVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H151JCV		
		50	150	±10%	1.6	0.8	0.8	0.3	PCC151CVCT-ND	12.97	51.88	77.82	—	—	—	—	—	ECU-V1H151KCV		
		50	180	±5%	1.6	0.8	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%	1.6	0.8	0.8	0.3	PCC221ACVCT-ND	10.50	42.00	63.00	PCC221ACVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H221JCV		
		50	220	±10%	1.6	0.8	0.8	0.3	PCC221CVCT-ND	12.60	50.40	75.60	PCC221CVTR-ND	37.00/M	—	—	35.00/M	ECU-V1H221KCV		
		50	270	±5%	1.6	0.8	0.8	0.3	PCC271ACVCT-ND	11.00	44.00	66.00	PCC271ACVTR-ND	33.00/M	—	—	30.00/M	ECU-V1H271JCV		
		50	270	±10%	1.6	0.8	0.8	0.3	PCC271CVCT-ND	14.40	57.60	86.40	PCC271CVTR-ND	43.00/M	—	—	39.00/M	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	330	±10%	1.6	0.8	0.8	0.3	PCC331CVCT-ND	15.00	60.00	90.00	PCC331CVTR-ND	44.00/M	—	—	41.00/M	ECU-V1H331KCV		
		50	390	±5%	1.6	0.8	0.8	0.3	PCC391ACVCT-ND	14.00	56.00	84.00	PCC391ACVTR-ND	41.00/M	—	—	38.00/M	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-V1H221KVB		
		50	270	±10%	1.6	0.8	0.8	0.3	PCC271BVCT-ND	7.00	28.00	42.00	PCC271BVTR-ND	21.00/M	—	—	19.00/M	ECU-V1H271KVB		
		50	330	±10%	1.6	0.8	0.8	0.3	PCC331BVCT-ND	7.00	28.00	42.00	PCC331BVTR-ND	21.00/M	—	—	19.00/M	ECU-V1H331KVB		
		50	390	±10%	1.6	0.8	0.8	0.3	PCC391BVCT-ND	7.00	28.00	42.00	PCC391BVTR-ND	21.00/M	—	—	19.00/M	ECU-V1H391KVB		
		50	470	±10%	1.6	0.8	0.8	0.3	PCC471BVCT-ND	7.50	30.00	45.00	PCC471BVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H471KVB		
		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-V1H561KVB		
		50	680	±10%	1.6	0.8	0.8	0.3	PCC681BVCT-ND	7.50	30.00	45.00	PCC681BVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H681KVB		
		50	820	±10%	1.6	0.8	0.8	0.3	PCC821BVCT-ND	7.50	30.00	45.00	PCC821BVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H821KVB		
		50	1000	±10%	1.6	0.8	0.8	0.3	PCC102BVCT-ND	7.50	30.00	45.00	PCC102BVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H102KVB		
		50	1200	±10%	1.6	0.8	0.8	0.3	PCC122BVCT-ND	7.50	30.00	45.00	PCC122BVTR-ND	22.00/M	—	—	21.00/M	ECU-V1H122KVB		
		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-V1H152KVB		
		50	1800	±10%	1.6	0.8	0.8	0.3	PCC182BVCT-ND	8.50	34.00	51.00	PCC182BVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H182KVB		
		50	2200	±10%	1.6	0.8	0.8	0.3	PCC222BVCT-ND	8.50	34.00	51.00	PCC222BVTR-ND	25.00/M	—	—	23.00/M	ECU-V1H222KVB		
		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-V1H272KVB		
		50	3300	±10%	1.6	0.8	0.8	0.3	PCC332BVCT-ND	9.00	36.00	54.00	PCC332BVTR-ND	27.00/M	—	—	25.00/M	ECU-V1H332KVB		
		50	3900	±10%	1.6	0.8	0.8	0.3	PCC392BVCT-ND	9.50	38.00	57.00	PCC392BVTR-ND	28.00/M	—	—	26.00/M	ECU-V1H392KVB		
		50	4700	±10%	1.6	0.8	0.8	0.3	PCC472BVCT-ND	10.50	42.00	63.00	PCC472BVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H472KVB		
		50	5600	±10%	1.6	0.8	0.8	0.3	PCC562BVCT-ND	10.50	42.00	63.00	PCC562BVTR-ND	31.00/M	—	—	29.00/M	ECU-V1H562KVB		
		50	6800	±10%	1.6	0.8	0.8	0.3	PCC682BVCT-ND	11.60	46.40	69.60	PCC682BVTR-ND	34.00/M	—	—	32.00/M	ECU-V1H682KVB		
		50	8200	±10%	1.6	0.8	0.8	0.3	PCC822BVCT-ND	12.00	48.00	72.00	PCC822BVTR-ND	36.00/M	—	—	33.00/M	ECU-V1H822KVB		
		50	10000	±10%	1.6	0.8	0.8	0.3	PCC103BVCT-ND	12.00	48.00	72.00	PCC103BVTR-ND	36.00/M	—	—	33.00/M	ECU-V1H103KVB		
		50	12000	±10%	1.6	0.8	0.8	0.3	PCC123BVCT-ND	13.00	52.00	78.00	PCC123BVTR-ND	39.00/M	—	—	36.00/M	ECU-V1H123KVB		
		50	15000	±10%	1.6	0.8	0.8	0.3	PCC153BVCT-ND	14.50	58.00	87.00	PCC153BVTR-ND	43.00/M	—	—	40.00/M	ECU-V1H153KVB		
		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-V1E183KVB		
		25	22000	±10%	1.6	0.8	0.8	0.3	PCC223BVCT-ND	15.50	62.00	93.00	PCC223BVTR-ND	46.00/M	—	—	42.00/M	ECU-V1E223KVB		
		0805	NPO	50	0.5	±0.25pF	2.0	1.25	0.65	0.5	PCC0R5CNCT-ND	7.00	28.00	42.00	PCC0R5CNTR-ND	—	21.00/M	19.00/M	—	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	1.5	±0.25pF	2.0	1.25	0.65	0.5	PCC1R5CNCT-ND	7.00	28.00	42.00	PCC1R5CNTR-ND	—	21.00/M	19.00/M	—	ECU-V1H1R5CCN
				50	2.0	±0.25pF	2.0	1.25	0.65	0.5	PCC020CNCT-ND	7.00	28.00	42.00	PCC020CNTR-ND	—	21.00/M	19.00/M	—	ECU-V1H020CCN
				50	3.0	±0.25pF	2.0													

Size Code	Type	WV DC	Cap. pF	Tolerance	Dimensions				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing			Panasonic Part No.
					±0.2	W ±0.2	T Max.	±0.3		100	500	1,000		4,000	5,000	10,000	
0805	X7R	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	680	±10%	2.0	1.25	0.65	0.5	PCC681BNCT-ND	8.50	34.00	51.00	PCC681BNTR-ND	25.00/M	23.00/M	—	ECU-V1H681KBN
		50	820	±10%	2.0	1.25	0.65	0.5	PCC821BNCT-ND	8.50	34.00	51.00	PCC821BNTR-ND	25.00/M	23.00/M	—	ECU-V1H821KBN
		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	1800	±10%	2.0	1.25	0.65	0.5	PCC182BNCT-ND	8.50	34.00	51.00	PCC182BNTR-ND	25.00/M	23.00/M	—	ECU-V1H182KBN
		50	2200	±10%	2.0	1.25	0.65	0.5	PCC222BNCT-ND	8.50	34.00	51.00	PCC222BNTR-ND	25.00/M	23.00/M	—	ECU-V1H222KBN
		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
0805	X7R	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	3900	±10%	2.0	1.25	0.65	0.5	PCC392BNCT-ND	9.50	38.00	57.00	PCC392BNTR-ND	28.00/M	26.00/M	—	ECU-V1H392KBN
		50	4700	±10%	2.0	1.25	0.65	0.5	PCC472BNCT-ND	9.50	38.00	57.00	PCC472BNTR-ND	28.00/M	26.00/M	—	ECU-V1H472KBN
		50	5600	±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-V1H562KBN
		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-V1H682KBN
		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-V1H822KBN
		50	10000	±10%	2.0	1.25	0.65	0.5	PCC103BNCT-ND	10.50	42.00	63.00	PCC103BNTR-ND	31.00/M	29.00/M	—	ECU-V1H103KBN
		50	12000	±10%	2.0	1.25	0.65	0.5	PCC123BNCT-ND	11.00	44.00	66.00	PCC123BNTR-ND	33.00/M	30.00/M	—	ECU-V1H123KBN
		50	15000	±10%	2.0	1.25	0.65	0.5	PCC153BNCT-ND	12.00	48.00	72.00	PCC153BNTR-ND	36.00/M	33.00/M	—	ECU-V1H153KBN
		50	18000	±10%	2.0	1.25	0.65	0.5	PCC183BNCT-ND	13.00	52.00	78.00	PCC183BNTR-ND	39.00/M	36.00/M	—	ECU-V1H183KBN
0805	X7R	50	22000	±10%	2.0	1.25	0.65	0.5	PCC223BNCT-ND	14.00	56.00	84.00	PCC223BNTR-ND	41.00/M	38.00/M	—	ECU-V1H223KBN
		50	27000	±10%	2.0	1.25	1.0	0.5	PCC273BNCT-ND	15.50	62.00	93.00	PCC273BNTR-ND	46.00/M	—	42.00/M	ECU-V1H273KBN
		50	.5	±0.25pF	3.2	1.6	0.65	0.6	PCCR05CT-ND	10.01	40.02	60.03	PCCR05CTR-ND	30.00/M	27.00/M	—	ECU-V1H05CTM
		50	1.0	±0.25pF	3.2	1.6	0.65	0.6	PCC010CT-ND	10.12	40.48	60.72	PCC010CTR-ND	30.00/M	28.00/M	—	ECU-V1H010CTM
		50	1.5	±0.25pF	3.2	1.6	0.65	0.6	PCC015CT-ND	10.12	40.48	60.72	PCC015CTR-ND	30.00/M	28.00/M	—	ECU-V1H015CTM
		50	1.8	±0.25pF	3.2	1.6	0.65	0.6	PCC018CT-ND	12.00	48.00	72.00	PCC018CTR-ND	36.00/M	33.00/M	—	ECU-V1H018CTM
		50	2.0	±0.25pF	3.2	1.6	0.65	0.6	PCC020CT-ND	10.55	42.20	63.30	PCC020CTR-ND	31.00/M	29.00/M	—	ECU-V1H020CTM
		50	2.7	±0.25pF	3.2	1.6	0.65	0.6	PCC027CT-ND	10.55	42.20	63.30	PCC027CTR-ND	31.00/M	29.00/M	—	ECU-V1H027CTM
		50	3.3	±0.25pF	3.2	1.6	0.65	0.6	PCC033CT-ND	10.56	42.24	63.36	PCC033CTR-ND	31.00/M	29.00/M	—	ECU-V1H033CTM
		50	3.9	±0.25pF	3.2	1.6	0.65	0.6	PCC039CT-ND	10.56	42.24	63.36	PCC039CTR-ND	31.00/M	29.00/M	—	ECU-V1H039CTM
0805	X7R	50	4.7	±0.25pF	3.2	1.6	0.65	0.6	PCC047CT-ND	10.56	42.24	63.36	PCC047CTR-ND	31.00/M	29.00/M	—	ECU-V1H047CTM
		50	5.1	±0.25pF	3.2	1.6	0.65	0.6	PCC051CT-ND	10.56	42.24	63.36	PCC051CTR-ND	31.00/M	29.00/M	—	ECU-V1H051CTM
		50	5.6	±0.25pF	3.2	1.6	0.65	0.6	PCC056CT-ND	10.56	42.24	63.36	PCC056CTR-ND	31.00/M	29.00/M	—	ECU-V1H056CTM
		50	6.8	±0.5pF	3.2	1.6	0.65	0.6	PCC068CT-ND	10.59	42.34	63.51	PCC068CTR-ND	31.00/M	29.00/M	—	ECU-V1H068CTM
		50	7.5	±0.5pF	3.2	1.6	0.65	0.6	PCC075CT-ND	10.59	42.34	63.51	PCC075CTR-ND	31.00/M	29.00/M	—	ECU-V1H075CTM
		50	8.2	±0.5pF	3.2	1.6	0.65	0.6	PCC082CT-ND	10.59	42.34	63.51	PCC082CTR-ND	31.00/M	29.00/M	—	ECU-V1H082CTM
		50	9.1	±0.5pF	3.2	1.6	0.65	0.6	PCC091CT-ND	10.56	42.24	63.36	PCC091CTR-ND	31.00/M	29.00/M	—	ECU-V1H091CTM
		50	10	±0.5pF	3.2	1.6	0.65	0.6	PCC100CT-ND	10.15	40.58	60.87	PCC100CTR-ND	30.00/M	28.00/M	—	ECU-V1H100CTM
		50	12	±5%	3.2	1.6	0.65	0.6	PCC120CT-ND	10.88	43.52	65.28	PCC120CTR-ND	32.00/M	30.00/M	—	ECU-V1H120CTM
		50	15	±5%	3.2	1.6	0.65	0.6	PCC150CT-ND	10.87	43.48	65.22	PCC150CTR-ND	32.00/M	30.00/M	—	ECU-V1H150CTM
0805	X7R	50	18	±5%	3.2	1.6	0.65	0.6	PCC180CT-ND	10.87	43.48	65.22	PCC180CTR-ND	32.00/M	30.00/M	—	ECU-V1H180CTM
		50	20	±5%	3.2	1.6	0.65	0.6	PCC200CT-ND	10.18	40.70	61.05	PCC200CTR-ND	30.00/M	28.00/M	—	ECU-V1H200CTM
		50	22	±5%	3.2	1.6	0.65	0.6	PCC220CT-ND	10.18	40.70	61.05	PCC220CTR-ND	30.00/M	28.00/M	—	ECU-V1H220CTM
		50	27	±5%	3.2	1.6	0.65	0.6	PCC270CT-ND	10.87	43.48	65.22	PCC270CTR-ND	32.00/M	30.00/M	—	ECU-V1H270CTM
		50	33	±5%	3.2	1.6	0.65	0.6	PCC330CT-ND	11.33	45.32	67.98	PCC330CTR-ND	34.00/M	31.00/M	—	ECU-V1H330CTM
		50	39	±5%	3.2	1.6	0.65	0.6	PCC390CT-ND	10.88	43.52	65.28	PCC390CTR-ND	32.00/M	30.00/M	—	ECU-V1H390CTM
		50	47	±5%	3.2	1.6	0.65	0.6	PCC470CT-ND	12.70	50.78	76.17	PCC470CTR-ND	38.00/M	35.00/M	—	ECU-V1H470CTM
		50	51	±5%	3.2	1.6	0.65	0.6	PCC510CT-ND	12.70	50.78	76.17	PCC510CTR-ND	38.00/M	35.00/M	—	ECU-V1H510CTM
		50	56	±5%	3.2	1.6	0.65	0.6	PCC560CT-ND	12.70	50.78	76.17	PCC560CTR-ND	38.00/M	35.00/M	—	ECU-V1H560CTM
		50	68	±5%	3.2	1.6	0.65	0.6	PCC680CT-ND	12.70	50.78	76.17	PCC680CTR-ND	38.00/M	35.00/M	—	ECU-V1H680CTM
1206	X7R	50	100	±5%	3.2	1.6	0.65	0.6	PCC101CT-ND	12.17	48.66	72.99	PCC101CTR-ND	36.00/M	33.00/M	—	ECU-V1H101CTM
		50	120	±5%	3.2	1.6	0.65	0.6	PCC121CT-ND	12.15	48.58	72.87	PCC121CTR-ND	36.00/M	33.00/M	—	ECU-V1H121CTM
		50	1000	±5%	3.2	1.6	0.65	0.6	PCC102CT-ND	20.98	83.90	125.85	PCC102CTR-ND	62.00/M	57.00/M	—	ECU-V1H102CTM
		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	270	±10%	3.2	1.6	0.65	0.6	PCC271BCT-ND	9.66	38.64	57.96	PCC271BTR-ND	29.00/M	26.00/M	—	ECU-V1H271KBM
		50	330	±10%	3.2	1.6	0.65	0.6	PCC331BCT-ND	10.70	42.80	64.20	PCC331BTR-ND	30.00/M	28.00/M	—	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	560	±10%	3.2	1.6	0.65	0.6	PCC561BCT-ND	10.08	40.32	60.48	PCC561BTR-ND	30.00/M	28.00/M	—	ECU-V1H561KBM
		50	680	±10%	3.2	1.6	0.65	0.6	PCC681BCT-ND	10.03	40.12	60.18	PCC681BTR-ND	30.00/M	27.00/M	—	ECU-V1H681KBM
0805	X7R	50	820	±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	—	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	1500	±10%	3.2	1.6	0.65	0.6	PCC152BCT-ND	10.50	42.00	63.00	PCC152BTR-ND	31.00/M	29.00/M	—	ECU-V1H152KBM
		50	1800	±10%	3.2	1.6	0.65	0.6	PCC182BCT-ND	10.50	42.00	63.00	PCC182BTR-ND	31.00/M	29.00/M	—	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</			