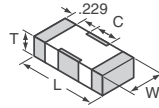


X2Y 滤波电容器采用独特的专利低电感设计，具有两个均衡的电容器，可以耐受温度、电压和老化性能的变化。这些元件具有极强的去耦和 EMI 滤波性能。

应用：• FPGA/ASIC/μ-P 去耦 • DDR 存储器去耦 • 放大器滤波和去耦 • 高速数据过滤 • 手机



物理特性 - 尺寸 (单位: mm)			
系列	L	W	C
0603	1.626 ± 0.127	0.889 ± 0.127	0.457 ± 0.102
0805	2.032 ± 0.203	1.270 ± 0.203	0.559 ± 0.127
1206	3.150 ± 0.254	1.600 ± 0.254	1.016 ± 0.127
1410	3.556 ± 0.254	2.490 ± 0.254	1.143 ± 0.127
1812	4.420 ± 0.254	3.175 ± 0.254	1.143 ± 0.127

尺寸代码	类型	WV DC	电容	电容公差	尺寸 T (mm)	Digi-Key 零件编号	剪切带价格			Digi-Key 零件编号	带卷		Johanson Dielectrics 零件编号
							10	100	500		数量	价格	
0603	NP0	50	5.6pF	±20%	0.660	709-1000-1-ND	7.28	43.00	124.03	709-1000-2-ND	4,000	119.00/M	500X14N5R6MV4T
		50	10pF	±20%	0.660	709-1001-1-ND	7.28	43.00	124.03	709-1001-2-ND	4,000	119.00/M	500X14N100MV4T
		50	22pF	±20%	0.660	709-1002-1-ND	7.28	43.00	124.03	709-1002-2-ND	4,000	119.00/M	500X14N220MV4T
		50	47pF	±20%	0.660	709-1003-1-ND	7.47	44.14	127.33	709-1003-2-ND	4,000	122.00/M	500X14N470MV4T
		50	100pF	±20%	0.660	709-1004-1-ND	7.71	45.57	131.46	709-1004-2-ND	4,000	126.00/M	500X14N101MV4T
	X7R	6.3	.1μF	±20%	0.660	709-1009-1-ND	10.87	64.21	185.21	709-1009-2-ND	4,000	178.00/M	6R3X14W104MV4T
		10	.1μF	±20%	0.660	709-1101-1-ND	10.87	64.21	185.21	709-1101-2-ND	4,000	178.00/M	100X14W104MV4T
		16	47,000pF	±20%	0.660	709-1088-1-ND	12.09	71.45	206.10	709-1088-2-ND	4,000	198.00/M	160X14W471MV4T
		25	22,000pF	±20%	0.660	709-1087-1-ND	9.67	57.15	164.87	709-1087-2-ND	4,000	158.00/M	250X14W223MV4T
		50	470pF	±20%	0.660	709-1085-1-ND	7.01	41.44	119.53	709-1085-2-ND	4,000	115.00/M	500X14W471MV4T
		50	1,000pF	±20%	0.660	709-1005-1-ND	7.02	41.46	119.61	709-1005-2-ND	4,000	115.00/M	500X14W102MV4T
		50	1,500pF	±20%	0.660	709-1006-1-ND	7.02	41.46	119.61	709-1006-2-ND	4,000	115.00/M	500X14W152MV4T
		50	2,200pF	±20%	0.660	709-1086-1-ND	7.50	44.29	127.76	709-1086-2-ND	4,000	123.00/M	500X14W222MV4T
		50	4,700pF	±20%	0.660	709-1007-1-ND	7.24	42.80	123.47	709-1007-2-ND	4,000	119.00/M	500X14W472MV4T
50	10,000pF	±20%	0.660	709-1008-1-ND	8.65	51.12	147.45	709-1008-2-ND	4,000	142.00/M	500X14W103MV4T		
0805	X7R	50	1,000pF	±20%	1.016	709-1010-1-ND	13.61	80.45	232.07	709-1010-2-ND	4,000	223.00/M	500X15W102MV4T
		50	10,000pF	±20%	1.016	709-1011-1-ND	14.60	86.28	248.89	709-1011-2-ND	4,000	239.00/M	500X15W103MV4E
		50	47,000pF	±20%	1.016	709-1012-1-ND	30.56	180.59	520.93	709-1012-2-ND	4,000	500.00/M	500X15W473MV4E
1206	X7R	10	.47μF	±20%	1.270	709-1103-1-ND	20.04	118.41	341.57	709-1103-2-ND	3,000	328.00/M	100X18W474MV4E
		16	.22μF	±20%	1.270	709-1102-1-ND	16.72	98.83	285.08	709-1102-2-ND	3,000	274.00/M	160X18W224MV4E
		50	.1μF	±20%	1.270	709-1013-1-ND	30.56	180.59	520.93	709-1013-2-ND	3,000	500.00/M	500X18W104MV4E
1410	X7R	50	.40μF	±20%	1.778	709-1017-1-ND	54.98	324.87	937.13	709-1017-2-ND	2,000	900.00/M	500X44W404MV4E
1812	X7R	50	.47μF	±20%	2.286	709-1016-1-ND	64.68	382.20	1102.50	709-1016-2-ND	1,000	1058.00	500X43W474MV4E

F

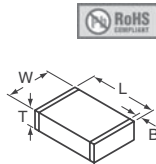
## MLCC 电容器 高压和 Tanceram

高压应用:

- 模拟和数字调制解调器 • 照明镇流器电路 • 电压乘法器 • DC-DC 转换器 • LAN/WAN 接口 • 背光反相器

Tanceram 应用:

- 开关电源平流 (输入/输出) • DC/DC 转换器平流 (输入/输出) • 背光反相器 • 常规数字电路



物理特性 - 尺寸 (单位: mm)			
系列	L	W	B
0402	1.02 ± .10	0.51 ± .10	0.20 ± .10
0603	1.60 ± .20	0.81 ± .20	0.25 ± .13
0805	2.03 ± .25	1.27 ± .25	0.51 ± .25
1206	3.17 ± .25	1.57 ± .25	0.51 ± .25
1210	3.18 ± .25	2.41 ± .25	0.51 ± .25
1808	4.57 ± .25	2.03 ± .25	0.51 ± .25
1812	4.57 ± .25	3.17 ± .25	0.64 ± .38
1825	4.57 ± .25	6.35 ± .25	0.64 ± .38
2225	5.72 ± .25	6.48 ± .38	0.64 ± .38

尺寸代码	类型	WV DC	电容	电容公差	尺寸 T (mm)	Digi-Key 零件编号	剪切带价格			Digi-Key 零件编号	带卷		Johanson Dielectrics 零件编号
							10	100	500		数量	价格	
高电压													
0805	NP0	500	100pF	±10%	1.27	709-1019-1-ND	1.39	8.19	23.63	709-1019-2-ND	4,000	23.00/M	501R15N101KV4T
		250	22,000pF	±10%	1.27	709-1018-1-ND†	1.94	11.44	33.00	709-1018-2-ND†	3,000	32.00/M	251R15W223KV4E
	X7R	500	1,000pF	±10%	1.27	709-1020-1-ND	1.43	8.45	24.38	709-1020-2-ND	3,000	23.00/M	501R15W102KV4E
		500	10,000pF	±10%	1.27	709-1021-1-ND	2.53	14.95	43.13	709-1021-2-ND	3,000	41.00/M	501R15W103KV4E
1206	NP0	500	100pF	±10%	1.27	709-1022-1-ND	1.69	10.01	28.88	709-1022-2-ND	3,000	28.00/M	501R18N101JV4E
		500	220pF	±5%	1.27	709-1023-1-ND	1.98	11.70	33.75	709-1023-2-ND	3,000	32.00/M	501R18N221JV4E
		500	470pF	±5%	1.27	709-1024-1-ND	2.53	14.95	43.13	709-1024-2-ND	3,000	41.00/M	501R18N471JV4E
		2,000	100pF	±5%	1.27	709-1033-1-ND	3.07	18.14	52.31	709-1033-2-ND	3,000	50.00/M	202R18N101JV4E
		2,000	220pF	±5%	1.27	709-1034-1-ND	3.19	18.85	54.38	709-1034-2-ND	3,000	52.00/M	202R18N221JV4E
	X7R	500	1,000pF	±10%	1.27	709-1025-1-ND	1.64	9.69	27.94	709-1025-2-ND	3,000	27.00/M	501R18W102KV4E
		500	4,700pF	±10%	1.27	709-1026-1-ND	3.08	18.20	52.50	709-1026-2-ND	3,000	50.00/M	501R18W472KV4E
		500	10,000pF	±10%	1.27	709-1027-1-ND	2.15	12.68	36.56	709-1027-2-ND	3,000	35.00/M	501R18W103KV4E
		500	22,000pF	±10%	1.27	709-1028-1-ND	3.08	18.20	52.50	709-1028-2-ND	2,000	50.00/M	501R18W223KV4E
		1,000	1,000pF	±10%	1.27	709-1029-1-ND	2.16	12.74	36.75	709-1029-2-ND	3,000	35.00/M	102R18W102KV4E
		1,000	4,700pF	±10%	1.27	709-1031-1-ND	3.34	19.76	57.00	709-1031-2-ND	3,000	55.00/M	102R18W472KV4E
		2,000	470pF	±10%	1.27	709-1035-1-ND	2.22	13.13	37.88	709-1035-2-ND	3,000	36.00/M	202R18W471KV4E
		2,000	1,000pF	±10%	1.27	709-1036-1-ND	2.76	16.32	47.06	709-1036-2-ND	3,000	45.00/M	202R18W102KV4E
		1210	NP0	1,000	680pF	±10%	1.65	709-1038-1-ND	5.94	35.10	101.25	709-1038-2-ND	2,000
500	47,000pF			±10%	1.65	709-1037-1-ND	9.59	56.68	163.50	709-1037-2-ND	2,000	157.00/M	501S41W473KV4E
X7R	1,000		10,000pF	±10%	1.65	709-1039-1-ND	7.48	44.20	127.50	709-1039-2-ND	2,000	122.00/M	102S41W103KV4E
	2,000		1,000pF	±10%	1.65	709-1040-1-ND	5.14	30.36	87.56	709-1040-2-ND	2,000	84.00/M	202S41W102KV4E
	2,000		2,700pF	±10%	1.65	709-1041-1-ND	8.26	48.82	140.81	709-1041-2-ND	2,000	135.00/M	202S41W227KV4E
1808	NP0	2,000	470pF	±10%	2.03	709-1043-1-ND	17.26	101.99	294.19	709-1043-2-ND	2,000	282.00/M	202R29N471KV4E
		3,000	330pF	±10%	2.03	709-1044-1-ND	8.13	48.04	138.56	709-1044-2-ND	2,000	133.00/M	302R29N331KV4E
	X7R	2,000	150pF	±10%	2.03	709-1042-1-ND	4.86	28.73	82.88	709-1042-2-ND	2,000	80.00/M	202R29W151KV4E
		2,000	470pF	±10%	2.03	709-1045-1-ND	5.16	30.49	87.94	709-1045-2-ND	2,000	84.00/M	202R29W471KV4E
		2,000	1,000pF	±10%	2.03	709-1046-1-ND	5.50	32.50	93.75	709-1046-2-ND	2,000	90.00/M	202R29W102KV4E
		3,000	1,000pF	±10%	2.03	709-1047-1-ND	7.13	42.12	121.50	709-1047-2-ND	2,000	117.00/M	302R29W102KV4E

† 尖头和环形片状

(转下页)

尺寸代码	类型	WV DC	电容	电容公差	尺寸 T (mm)	Digi-Key 零件编号	剪切带价格			Digi-Key 零件编号	带卷		Johanson Dielectrics 零件编号
							10	100	500		数量	价格	
高电压													
1812	X7R	500	.1μF	±10%	2.80	709-1049-1-ND	18.55	109.59	—	709-1049-2-ND	500	151.50	501S43W104KV4E
		500	22,000pF	±10%	2.80	709-1050-1-ND	10.96	64.74	—	709-1050-2-ND	500	89.50	501S43W223KV4E
		1,000	10,000pF	±10%	2.80	709-1057-1-ND	11.23	66.37	—	709-1057-2-ND	1,000	184.00	102S43W103KV4E
		2,000	470pF	±10%	2.80	709-1052-1-ND	10.32	60.97	175.88	709-1052-2-ND	1,000	169.00	202S43W471KV4E
		2,000	1,000pF	±10%	2.80	709-1053-1-ND	8.98	53.04	153.00	709-1053-2-ND	1,000	147.00	202S43W102KV4E
		2,000	3,300pF	±10%	2.80	709-1054-1-ND	11.19	66.11	190.69	709-1054-2-ND	1,000	183.00	202S43W332KV4E
		3,000	150pF	±10%	2.80	709-1051-1-ND	8.71	51.48	148.50	709-1051-2-ND	1,000	143.00	302S43W151KV4E
		3,000	1,000pF	±10%	2.80	709-1055-1-ND	9.44	55.77	160.88	709-1055-2-ND	1,000	154.00	302S43W102KV4E
		3,000	3,300pF	±10%	2.80	709-1056-1-ND	14.19	83.85	—	709-1056-2-ND	500	116.00	302S43W332KV4E
1825	X7R	250	1μF	±10%	3.55	709-1048-1-ND†	90.66	535.73	—	709-1048-2-ND†	500	742.00	251S49W105KV4E
2225	X7R	2,000	10,000pF	±10%	3.81	709-1058-1-ND	73.66	435.24	1255.50	709-1058-2-ND	1,000	1205.00	202S48W103KV4E
		1,000	.1μF	±10%	3.81	709-1059-1-ND	76.23	450.45	—	709-1059-2-ND	500	623.50	102S48W104KV4E
Tanceram													
0402	X5R	6.3	1μF	±10%	0.64	709-1060-1-ND	1.74	10.31	29.74	709-1060-2-ND	10,000	29.00/M	6R3R07X105KV4T
0603	X5R	10	.47μF	±10%	0.89	709-1061-1-ND	1.93	11.38	32.81	709-1061-2-ND	4,000	32.00/M	100R14X474KV4T
		10	1μF	±20%	0.89	709-1062-1-ND	1.54	9.10	26.25	709-1062-2-ND	4,000	25.00/M	100R14X105MV4T
0805	X5R	6.3	10μF	±10%	1.27	709-1065-1-ND	9.21	54.42	156.98	709-1065-2-ND	3,000	151.00/M	6R3R15X106KV4E
		6.3	22μF	±10%	1.27	709-1066-1-ND	11.55	68.25	196.88	709-1066-2-ND	3,000	189.00/M	6R3R15X226KV4E
		10	2.2μF	±10%	1.27	709-1063-1-ND	2.20	13.00	37.50	709-1063-2-ND	3,000	36.00/M	100R15X225KV4E
		10	4.7μF	±10%	1.27	709-1064-1-ND	6.02	35.56	102.56	709-1064-2-ND	3,000	98.00/M	100R15X475KV4E
1206	X7R	16	1μF	±10%	1.27	709-1068-1-ND	1.87	11.05	31.88	709-1068-2-ND	3,000	31.00/M	160R18W105KV4E
		16	2.2μF	±10%	1.27	709-1070-1-ND	3.19	18.85	54.38	709-1070-2-ND	3,000	52.00/M	160R18W225KV4E
		25	.33μF	±10%	1.27	709-1067-1-ND	1.87	11.05	31.88	709-1067-2-ND	3,000	31.00/M	250R18W334KV4E
		25	1μF	±10%	1.27	709-1069-1-ND	2.75	16.25	46.88	709-1069-2-ND	2,000	45.00/M	250R18W105KV4E
	X5R	6.3	10μF	±10%	1.27	709-1074-1-ND	4.82	28.47	82.13	709-1074-2-ND	2,000	79.00/M	6R3R18X106KV4E
		10	3.3μF	±10%	1.27	709-1071-1-ND	7.70	45.50	131.25	709-1071-2-ND	2,000	126.00/M	100R18X335KV4E
		10	4.7μF	±10%	1.27	709-1072-1-ND	6.33	37.38	107.81	709-1072-2-ND	2,000	104.00/M	100R18X475KV4E
		16	4.7μF	±20%	1.27	709-1073-1-ND	5.12	30.23	87.19	709-1073-2-ND	2,000	84.00/M	160R18X475MV4E
1210	X5R	6.3	22μF	±20%	1.65	709-1078-1-ND	15.40	91.00	—	709-1078-2-ND	500	126.00	6R3S41X226MV4E
		6.3	100μF	±20%	1.65	709-1079-1-ND	52.80	312.00	900.00	709-1079-2-ND	2,000	864.00/M	6R3S41X107MV4E
		16	10μF	±10%	1.65	709-1076-1-ND	9.35	55.25	159.38	709-1076-2-ND	2,000	153.00/M	160S41X106KV4E
		25	4.7μF	±10%	1.65	709-1075-1-ND	7.92	46.80	135.00	709-1075-2-ND	2,000	130.00/M	250S41X475KV4E
		25	10μF	±10%	1.65	709-1077-1-ND	10.45	61.75	178.13	709-1077-2-ND	2,000	171.00/M	250S41X106KV4E
	Y5V	10	22μF	+80-20%	1.65	709-1082-1-ND	6.05	35.75	103.13	709-1082-2-ND	2,000	99.00/M	100S41Y226ZV4E
1812	X5R	6.3	100μF	±20%	2.80	709-1084-1-ND	60.94	360.10	—	709-1084-2-ND	500	498.50	6R3S43X107MV4E
		16	22μF	±20%	2.80	709-1083-1-ND	25.30	149.50	—	709-1083-2-ND	500	207.00	160S43X226MV4E

† 尖头和环形片状

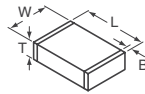
F

## 安全认证的电容器 - SC 型

Johanson Dielectrics 的 SC 型陶瓷片状电容器设计用于火线到地线接口中的 AC 电压浪涌和照明保护。应用包括计算机网络、调制解调器、传真和其它设备。Johanson 的安全电容器产品包括四种不同尺寸的外壳和 NP0 和 X7R 电介质材料。此类器件具有阻碍端子，并且可以进行表面贴装。

安全额定信息：

- X 电容器：适合于电容器出现故障不会导致电击危险的情况。
- Y 电容器：适合于电容器出现故障可能导致电击危险的情况。



系列	物理特性 - 尺寸 - mm			
	安全额定	L	W	B
1808	X2/Y3	4.57 ± 0.25	2.03 ± 0.25	0.51 ± 0.25
	X1/Y2	4.80 ± 0.25	2.03 ± 0.25	0.30 ± 0.13
2211	Y2	5.72 ± 0.40	2.80 ± 0.25	0.51 ± 0.25
2220	X1/Y2	5.72 ± 0.25	5.08 ± 0.25	0.64 ± 0.38

尺寸代码	类型	脉冲电压 (V)	安全额定	WV AC	电容	电容公差	尺寸 T (mm)	Digi-Key 零件编号	剪切带价格			Digi-Key 零件编号	带卷		Johanson Dielectrics 零件编号
									10	100	500		数量	价格	
1808	NP0	3,000	X2/Y3	250	10pF	±5%	2.16	709-1089-1-ND	6.38	37.70	108.75	709-1089-2-ND	2,000	104.00/M	302R29N100JV4E-****-SC
					150pF	±10%	2.16	709-1090-1-ND	7.48	44.19	127.46	709-1090-2-ND	2,000	122.00/M	302R29N151KV4E-****-SC
					470pF	±10%	2.16	709-1095-1-ND	10.16	60.06	173.25	709-1095-2-ND	2,000	166.00/M	302R29N471KV4E-****-SC
	X7R	3,000	X2/Y3	250	470pF	±10%	2.16	709-1091-1-ND	7.21	42.58	122.81	709-1091-2-ND	2,000	118.00/M	302R29W471KV4E-****-SC
					680pF	±10%	2.16	709-1093-1-ND	8.45	49.92	144.00	709-1093-2-ND	2,000	138.00/M	302R29W681KV4E-****-SC
					1,000pF	±10%	2.16	709-1094-1-ND	7.35	43.42	125.25	709-1094-2-ND	2,000	120.00/M	302R29W102KV4E-****-SC
X7R	5,000	X1/Y2	250	680pF	±10%	2.16	709-1092-1-ND	15.84	93.60	270.00	709-1092-2-ND	2,000	259.00/M	502R29W681KV4E-****-SC	
2211	X7R	5,000	Y2	250	33pF	±5%	2.16	709-1096-1-ND	12.83	75.79	218.63	709-1096-2-ND	2,000	210.00/M	502R30N330JV4E-****-SC
					680pF	±10%	2.16	709-1097-1-ND	13.98	82.62	238.31	709-1097-2-ND	2,000	229.00/M	502R30W681KV4E-****-SC
					1,000pF	±10%	2.16	709-1098-1-ND	13.64	80.60	232.50	709-1098-2-ND	1,000	223.00	502R30W102KV4E-****-SC
2220	X7R	5,000	X1/Y2	250	2,200pF	±10%	2.80	709-1099-1-ND	34.18	201.96	—	709-1099-2-ND	500	279.50	502S47W222KV4E-****-SC
					4,700pF	±10%	2.80	709-1100-1-ND	64.90	383.50	1106.25	709-1100-2-ND	1,000	1062.00	502S47W472KV4E-****-SC