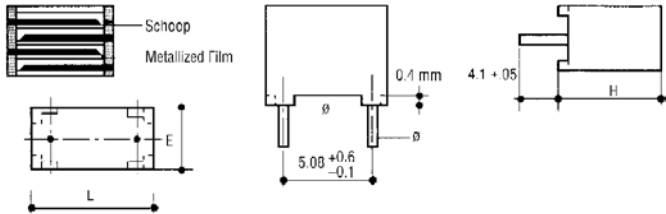




Visit AVX's Website at www.avxcorp.com

BF Series Film Radial Leads



General Characteristics
Climactic Category: 55/100/56 — performance class 2. **Capacitance Range:** C_R 1 nF to 2.2 µF (E12). **Tolerances On C_R:** ±5% and ±10% — other values on request. **Nominal Voltages:** U_R — 63/100/250/400 V, U_R— 40/63/160/200 V. **Category Voltage:** U_C = 0.8 U_R at 100°C. **Test Voltage:** U_t = 1.6 U_R/2 s at 25°C.

Dimensions (mm)

Case	Max. L	Max. H	Max. E	Ø ±0.02	Observation
01	7.5	6.5	2.5	0.5	1.0 nF ≤ C _R ≤ 220 nF
02	7.5	8.0	3.2	0.5	5.6 nF ≤ C _R ≤ 330 nF
07	7.5	8.0	5.0	0.5	18.0 nF ≤ C _R ≤ 1.0 µF
05*	7.5	12.0	6.0	0.5	27.0 nF ≤ C _R ≤ 2.2 µF

*BF05 model upon request.

Stock No.	Mfr.'s Type	Voltage	Cap.	Tol.	EACH		
					1-49	50-99	100-499
995-0124	BF014D0103J--	63 V	0.010 µF	5%	.18	.13	.09
995-0215	BF014E0103J--	100 V	0.010 µF	5%	.18	.13	.09
995-0128	BF014D0105J--	63 V	0.015 µF	5%	.18	.13	.09
995-0219	BF014E0105J--	100 V	0.015 µF	5%	.18	.13	.09
995-0133	BF014D0223J--	63 V	0.022 µF	5%	.18	.13	.09
995-0223	BF014E0223J--	100 V	0.022 µF	5%	.18	.13	.09
995-0137	BF014D0333J--	63 V	0.033 µF	5%	.18	.13	.09

Stock No.	Mfr.'s Type	Voltage	Cap.	Tol.	EACH		
					1-49	50-99	100-499
995-0227	BF014E0333J--	100 V	0.033 µF	5%	.18	.13	.09
995-0141	BF014D0473J--	63 V	0.047 µF	5%	.18	.13	.09
995-0231	BF014E0473J--	100 V	0.047 µF	5%	.18	.13	.09
995-0145	BF014D0683J--	63 V	0.068 µF	5%	.18	.13	.09
995-0235	BF014E0683J--	100 V	0.068 µF	5%	.18	.13	.09
995-0241	BF014E0124J--	100 V	0.100 µF	5%	.27	.19	.14
995-0149	BF014D0104J--	63 V	0.100 µF	5%	.18	.13	.09
995-0239	BF014E0104J--	100 V	0.100 µF	5%	.18	.13	.09
995-0155	BF014D0154J--	63 V	0.150 µF	5%	.24	.16	.13
995-0163	BF014D0224J--	63 V	0.220 µF	5%	.23	.15	.12
995-0251	BF074E0224J--	100 V	0.220 µF	5%	.36	.26	.20
995-0171	BF024D0334J--	63 V	0.330 µF	5%	.35	.25	.18
995-0255	BF074E0334J--	100 V	0.330 µF	5%	.29	.24	.20
995-0259	BF074E0394J--	100 V	0.390 µF	5%	.34	.29	.24
995-0177	BF074D0474J--	63 V	0.470 µF	5%	.28	.23	.19
995-0263	BF074E0474J--	100 V	0.470 µF	5%	.35	.29	.24
995-0179	BF074D0564J--	63 V	0.560 µF	5%	.38	.32	.26
995-0181	BF074D0684J--	63 V	0.680 µF	5%	.33	.27	.22
995-0187	BF054D0155J--	63 V	1.500 µF	5%	.94	.81	.65
995-0100	BF014D0102J--	63 V	1000 pF	5%	.18	.13	.09
995-0191	BF014E0102J--	100 V	1000 pF	5%	.18	.13	.09
995-0195	BF014E0152J--	100 V	1500 pF	5%	.18	.13	.09
995-0185	BF074D0105J--	63 V	1.000 µF	5%	.36	.31	.25
995-0189	BF054D0225J--	63 V	2.200 µF	5%	1.13	.96	.77
995-0108	BF014D0222J--	63 V	2200 pF	5%	.18	.13	.09
995-0199	BF014E0222J--	100 V	2200 pF	5%	.18	.13	.09
995-0112	BF014D0332J--	63 V	3300 pF	5%	.18	.13	.09
995-0203	BF014E0332J--	100 V	3300 pF	5%	.18	.13	.09
995-0116	BF014D0472J--	63 V	4700 pF	5%	.18	.13	.09
995-0207	BF014E0472J--	100 V	4700 pF	5%	.15	.10	.08
995-0118	BF014D0562J--	63 V	5600 pF	5%	.21	.14	.10
995-0120	BF014D0682J--	63 V	6800 pF	5%	.18	.13	.09
995-0122	BF014D0822J--	63 V	8200 pF	5%	.21	.14	.10
995-0134	BF014E0223K--	63 V	0.022 µF	10%	.17	.11	.09
995-0150	BF014D0104K--	63 V	0.100 µF	10%	.18	.13	.09
995-0178	BF074D0474K--	63 V	0.470 µF	10%	.38	.28	.21
995-0101	BF014D0102K--	63 V	1000 pF	10%	.17	.11	.09
995-0186	BF074D0105K--	63 V	1.000 µF	10%	.39	.33	.27
995-0190	BF054D0225K--	63 V	2.200 µF	10%	1.39	1.18	.96
995-0109	BF014D0222K--	63 V	2200 pF	10%	.17	.11	.09

Transient Voltage Suppressors

- Small Size
- Low Voltage
- Excellent Clamping Ratio
- High Transient Current Capability
- Response Time: Less than 1 nsec

Typical Applications

- Computer ESD and I/O Protection
- Automotive Transient Protection
- ESD/EMP Protected Connectors
- Data Line Protection
- Telecommunication Transient Protection
- Avionic Transient Protection

0603 Surface Mount

Inductance (L)*: ≤1.0. **Dimensions. Length:** .063" ±.006" (1.60 ±0.15 mm). **Width:** .032" ±.006" (0.80 ±0.15 mm). **Thickness:** .035" max. (0.90 mm). **Termination Finish:** Pb/Pd/Ag.

Stock No.	Mfr.'s Type	Working Voltage V _{WM} * (V Max.)	Breakdown Voltage V _B * (V)	Clamping Voltage V _C * (V Max.)	Peak Current I _{peak} * (A Max.)	Transient Energy E _{trans} * (Joules Max.)	Cap. C* (pF Typ.)	PER PKG./100	
								1-9	10-24
213-8098	VC060314A300	14.0	16.5-20.3	30.0	30	0.1	500	94.88	66.66
213-8100	VC060318A400	18.0	22.9-28.0	40.0	30	0.1	275	94.88	66.66
213-8102	VC060326A580	26.0	31.0-38.0	58.0	30	0.1	200	94.88	66.66
213-8104	VC060330A650	30.0	37.0-46.0	65.0	30	0.1	175	94.88	66.66

0805 Surface Mount

Inductance (L)*: ≤1.5. **Dimensions. Length:** .079" ±.008" (2.01 ±0.2 mm). **Width:** .049" ±.008" (1.25 ±0.2 mm). **Thickness:** .040" max. (1.02 mm). **Land Length:** .028" max. (0.71 mm). **Termination Finish:** Pb/Pd/Ag.

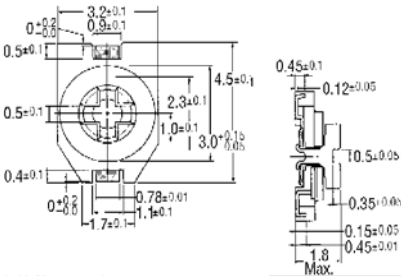
213-5050	VC080505A150	5.6	7.6-9.3	15.5	40	0.1	1100	51.87	36.66
213-5055	VC080505C150	5.6	7.1-8.7	15.5	120	0.3	2750	77.17	54.44

CTZ3 Series — Multilayer Ceramic Chip Trimmer Capacitors

- Maximum Height: 1.8 mm

Stock No.	Mfr.'s Type	Min. Cap. Value (pF)	Max. Cap. Value (pF)	TC (ppm/°C)	EACH*
213-9605	CTZ3E-05A-W1-PF	1.5	5	NPO±500	.92
213-9620	CTZ3E-10B-W1-PF	1.5	10	N400±500	.92
213-9630	CTZ3E-20C-W1-PF	5.0	20	N750±500	1.19
213-9640	CTZ3E-40C-W1-PF	5.0	40	N750±500	.68

*Sold in multiples of 100 only.



AVX RF/Microwave Designer and Tuning Kits

Tuning Kit Type 100. Consists of 300 capacitors, 10 each of 30 values from 0.5 pF to 56 pF with tolerances of ±0.1 pF and ±2%.

881-7525 EACH 253.00

Designer Kit Type 800. Consists of 300 capacitors, 10 each of 30 values from 0.1 to 47.0 pF with tolerances from ±0.05 pF to ±5%. Voltages of 25, 50 and 100 volts.

881-7505. Accu-P 0805KIT02 EACH 240.35

0805 Surface Mount (continued)

Stock No.	Mfr.'s Type	Working Voltage V _{WM} * (V Max.)	Breakdown Voltage V _B * (V)	Clamping Voltage V _C * (V Max.)	Peak Current I _{peak} * (A Max.)	Transient Energy E _{trans} * (Joules Max.)	Cap. C* (pF Typ.)	PER PKG./100	
								1-9	10-24
213-5065	VC080514C300	14.0	15.9-19.4	30.0	120	0.3	1200	77.17	54.44
213-6070	VC080518A400	18.0	22.9-28.0	40.0	30	0.1	350	77.17	54.44
213-6075	VC080518C400	18.0	22.5-27.5	40.0	100	0.3	650	77.17	59.10
213-6085	VC080526C580	26.0	30.5-37.3	58.0	100	0.3	200	77.17	54.44

1206 Surface Mount

Inductance (L)*: ≤1.7. **Dimensions. Length:** .126" ±.008" (3.20 ±0.2 mm). **Width:** .063" ±.008" (1.60 ±0.2 mm). **Thickness:** .040" max. (1.02 mm). **Land Length:** .028" max. (0.71 mm). **Termination Finish:** Pb/Pd/Ag.

213-6090	VC120603A100	3.6	4.0-5.5	10.0	40	0.1	2000	64.52	45.55
213-5070	VC120605D150	5.6	7.1-8.7	15.5	150	0.4	3000	86.02	61.10
213-5075	VC120614A300	14.0	16.5-20.3	30.0	40	0.1	600	64.52	45.55
213-5080	VC120614D300	14.0	15.9-19.4	30.0	150	0.4	1400	86.01	61.11
213-5090	VC120618D400	18.0	22.5-27.5	40.0	150	0.4	1000	86.02	61.11
213-5045	VC120630D650	30.0	36.0-45.0	65.0	120	0.4	500	86.02	61.11

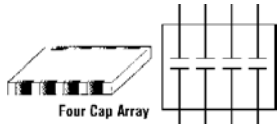
V_{WM} — Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50 µA leakage current. V_B — Voltage across the device measured at 1 mA DC current. V_C — Maximum peak voltage across the varistor measured at a specified pulse current and waveform(transient energy rating of 0.1 J=2 A, 8/20 µS pulse current and waveform; transient energy rating of 0.2 J=5 A, 8/20 µS pulse current and waveform; transient energy rating of ≥0.4 J=10 A, 8/20 µS pulse current and waveform); I_{peak} — Maximum peak current which may be applied with the specified waveform without device failure; E_{trans} — Maximum energy which may be dissipated with the specified waveform without device failure; C — Device capacitance measured with zero volt bias 0.5 Vrms and 1 kHz. L — Device inductance measured with a current edge rate of 100 mA/nS.

AVX Cap Arrays

Four Cap Array

0612 Case Size

The 0612 four capacitor array takes up less than half the board space of four discrete 0603 components and is much easier to handle. The 0612 cap array is ideal for all applications which use multiple capacitors.



Stock No.	Mfr.'s Type	Volt. (V)	Value (mF)	Temp. Coef.	Tol. (%)	EACH*
213-9500	W3A41A100KAT1A	100	100	NPO	10	.25
213-9510	W3A41A101KAT1A	100	101	NPO	10	.33
213-9518	W3A41A221KAT1A	100	221	NPO	10	.33
213-9526	W3A41C102MAT1A	100	102	X7R	20	.25
213-9538	W3A41C103MAT1A	100	103	X7R	20	.33
213-9542	W3A45C333MAT1A	50	333	X7R	20	.33
213-9544	W3A43C473MAT1A	25	473	X7R	20	.41
213-9549	W3A4YC104MAT1A	16	104	X7R	20	.36

*Sold in multiples of 100 only.