

EXTENDED TEMPERATURE LINE:

- Broad Capacitance Range
- Increased Volumetric Efficiency
- Low ESR
- Standard Ratings

GENERAL SPECIFICATIONS:

Capacitance Range:	250 to 150,000 μ F
Voltage Range:	50 to 250 WVDC
Capacitance Tolerance:	-10% / +50% Standard
Operating Temperature:	-55°C to +105°C
Life @ 85°C:	3,000 Hrs.
Life @ 105°C:	1,000 Hrs.
Terminals:	10-32 High Post – Standard (Other terminal configurations available)

RIPPLE CURRENT APPLICATION GUIDELINES:

RIPPLE CURRENT FREQUENCY MULTIPLIERS					
100 Hz	120 Hz	400 Hz	4 KHz	10 KHz	20 KHz
0.95	1.00	1.04	1.06	1.10	1.15

RIPPLE CURRENT TEMPERATURE MULTIPLIERS							
105	95	85	75	65	55	45	35
-	0.7	1.0	1.2	1.4	1.6	1.7	1.9

FOR COMPLETE APPLICATION SPECIFICATION DETAILS SEE
APPLICATION GUIDELINES SECTION OF CATALOG



23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
50	5,300	23F 532 F 050 BB 1H1	1.375	2.125	0.0238	7.9
	7,500	23F 752 F 050 BC 1H1	1.375	2.625	0.0177	10.1
	10,000	23F 103 F 050 BD 1H1	1.375	3.125	0.0139	12.3
	12,000	23F 123 F 050 BE 1H1	1.375	3.625	0.0121	14.1
	14,000	23F 143 F 050 BF 1H1	1.375	4.125	0.0107	15.9
	17,000	23F 173 F 050 BG 1H1	1.375	4.625	0.0093	18.0
	19,000	23F 193 F 050 BH 1H1	1.375	5.125	0.0086	19.6
	22,000	23F 223 F 050 BI 1H1	1.375	5.625	0.0078	21.5
	9,600	23F 962 F 050 CB 1H1	1.750	2.125	0.0144	11.7
	14,000	23F 143 F 050 CC 1H1	1.750	2.625	0.0107	14.8
	18,000	23F 183 F 050 CD 1H1	1.750	3.125	0.0089	17.5
	23,000	23F 233 F 050 CE 1H1	1.750	3.625	0.0076	20.3
	26,000	23F 263 F 050 CF 1H1	1.750	4.125	0.0070	22.4
	31,000	23F 313 F 050 CG 1H1	1.750	4.625	0.0063	24.8
	35,000	23F 353 F 050 CH 1H1	1.750	5.125	0.0059	26.9
	39,000	23F 393 F 050 CI 1H1	1.750	5.625	0.0056	29.0
	12,000	23F 123 F 050 DB 1H1	2.000	2.125	0.0121	13.8
	18,000	23F 183 F 050 DC 1H1	2.000	2.625	0.0089	17.5
	23,000	23F 233 F 050 DD 1H1	2.000	3.125	0.0076	20.5
	29,000	23F 293 F 050 DE 1H1	2.000	3.625	0.0066	23.5
	34,000	23F 343 F 050 DF 1H1	2.000	4.125	0.0060	26.1
	40,000	23F 403 F 050 DG 1H1	2.000	4.625	0.0055	28.6
	45,000	23F 453 F 050 DH 1H1	2.000	5.125	0.0052	30.9
	51,000	23F 513 F 050 DI 1H1	2.000	5.625	0.0049	33.2
	39,000	23F 393 F 050 ED 1H1	2.500	3.125	0.0056	27.2
	48,000	23F 483 F 050 EE 1H1	2.500	3.625	0.0050	30.5
	56,000	23F 563 F 050 EF 1H1	2.500	4.125	0.0047	33.4
	66,000	23F 663 F 050 EG 1H1	2.500	4.625	0.0044	36.3
	75,000	23F 753 F 050 EH 1H1	2.500	5.125	0.0042	38.9
	84,000	23F 843 F 050 EI 1H1	2.500	5.625	0.0040	41.4
	56,000	23F 563 F 050 FD 1H1	3.000	3.125	0.0047	33.0
	70,000	23F 703 F 050 FE 1H1	3.000	3.625	0.0043	36.7
	81,000	23F 813 F 050 FF 1H1	3.000	4.125	0.0041	39.8
	95,000	23F 953 F 050 FG 1H1	3.000	4.625	0.0039	42.8
	110,000	23F 114 F 050 FH 1H1	3.000	5.125	0.0037	45.8
	120,000	23F 124 F 050 FI 1H1	3.000	5.625	0.0036	48.2
130,000	23F 134 F 050 FJ 1H1	3.000	5.875	0.0035	49.2	
150,000	23F 154 F 050 FL 1H1	3.000	8.625	0.0034	60.1	

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (μF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
60	3,300	23F 332 F 060 BB 1H1	1.375	2.125	0.0280	7.3
	4,600	23F 462 F 060 BC 1H1	1.375	2.625	0.0224	9.0
	6,200	23F 622 F 060 BD 1H1	1.375	3.125	0.0180	10.8
	7,700	23F 772 F 060 BE 1H1	1.375	3.625	0.0153	12.5
	8,900	23F 892 F 060 BF 1H1	1.375	4.125	0.0137	14.0
	10,000	23F 103 F 060 BG 1H1	1.375	4.625	0.0126	15.5
	12,000	23F 123 F 060 BH 1H1	1.375	5.125	0.0110	17.4
	13,000	23F 133 F 060 BI 1H1	1.375	5.625	0.0104	18.7
	6,000	23F 602 F 060 CB 1H1	1.750	2.125	0.0184	10.3
	8,500	23F 852 F 060 CC 1H1	1.750	2.625	0.0142	12.9
	11,000	23F 113 F 060 CD 1H1	1.750	3.125	0.0117	15.3
	14,000	23F 143 F 060 CE 1H1	1.750	3.625	0.0098	17.8
	16,000	23F 163 F 060 CF 1H1	1.750	4.125	0.0089	19.8
	19,000	23F 193 F 060 CG 1H1	1.750	4.625	0.0079	22.2
	22,000	23F 223 F 060 CH 1H1	1.750	5.125	0.0072	24.4
	24,000	23F 243 F 060 CI 1H1	1.750	5.625	0.0068	26.2
	7,700	23F 772 F 060 DB 1H1	2.000	2.125	0.0153	12.3
	11,000	23F 113 F 060 DC 1H1	2.000	2.625	0.0117	15.3
	15,000	23F 153 F 060 DD 1H1	2.000	3.125	0.0093	18.5
	18,000	23F 183 F 060 DE 1H1	2.000	3.625	0.0082	21.0
	21,000	23F 213 F 060 DF 1H1	2.000	4.125	0.0074	23.4
	25,000	23F 253 F 060 DG 1H1	2.000	4.625	0.0066	26.1
	28,000	23F 283 F 060 DH 1H1	2.000	5.125	0.0062	28.3
	32,000	23F 323 F 060 DI 1H1	2.000	5.625	0.0057	30.7
	24,000	23F 243 F 060 ED 1H1	2.500	3.125	0.0068	24.6
	30,000	23F 303 F 060 EE 1H1	2.500	3.625	0.0059	28.1
	35,000	23F 353 F 060 EF 1H1	2.500	4.125	0.0054	31.0
	41,000	23F 413 F 060 EG 1H1	2.500	4.625	0.0050	34.1
	46,000	23F 463 F 060 EH 1H1	2.500	5.125	0.0047	36.7
	52,000	23F 523 F 060 EI 1H1	2.500	5.625	0.0044	39.4
	35,000	23F 353 F 060 FD 1H1	3.000	3.125	0.0054	30.7
	44,000	23F 443 F 060 FE 1H1	3.000	3.625	0.0048	34.7
	50,000	23F 503 F 060 FF 1H1	3.000	4.125	0.0045	37.8
	59,000	23F 593 F 060 FG 1H1	3.000	4.625	0.0042	41.2
	67,000	23F 673 F 060 FH 1H1	3.000	5.125	0.0040	44.3
	75,000	23F 753 F 060 FI 1H1	3.000	5.625	0.0038	47.2
	78,000	23F 783 F 060 FJ 1H1	3.000	5.875	0.0037	48.0
	94,000	23F 943 F 060 FL 1H1	3.000	8.625	0.0035	59.6

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (μF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
75	3,000	23F 302 F 075 BB 1H1	1.375	2.125	0.0310	6.9
	4,300	23F 432 F 075 BC 1H1	1.375	2.625	0.2540	8.4
	5,700	23F 572 F 075 BD 1H1	1.375	3.125	0.2100	10.0
	7,200	23F 722 F 075 BE 1H1	1.375	3.625	0.0177	11.6
	8,300	23F 832 F 075 BF 1H1	1.375	4.125	0.0159	13.0
	9,700	23F 972 F 075 BG 1H1	1.375	4.625	0.0142	14.6
	11,000	23F 113 F 075 BH 1H1	1.375	5.125	0.0129	16.0
	12,000	23F 123 F 075 BI 1H1	1.375	5.625	0.0121	17.3
	5,500	23F 552 F 075 CB 1H1	1.750	2.125	0.0215	9.6
	7,900	23F 792 F 075 CC 1H1	1.750	2.625	0.0165	11.9
	10,000	23F 103 F 075 CD 1H1	1.750	3.125	0.0138	14.1
	13,000	23F 133 F 075 CE 1H1	1.750	3.625	0.0114	16.6
	15,000	23F 153 F 075 CF 1H1	1.750	4.125	0.0102	18.6
	18,000	23F 183 F 075 CG 1H1	1.750	4.625	0.0089	20.9
	20,000	23F 203 F 075 CH 1H1	1.750	5.125	0.0083	22.8
	23,000	23F 233 F 075 CI 1H1	1.750	5.625	0.0075	25.0
	7,200	23F 722 F 075 DB 1H1	2.000	2.125	0.0177	11.4
	10,000	23F 103 F 075 DC 1H1	2.000	2.625	0.0138	14.1
	14,000	23F 143 F 075 DD 1H1	2.000	3.125	0.0107	17.2
	17,000	23F 173 F 075 DE 1H1	2.000	3.625	0.0093	19.8
	19,000	23F 193 F 075 DF 1H1	2.000	4.125	0.0086	21.8
	23,000	23F 233 F 075 DG 1H1	2.000	4.625	0.0075	24.5
	26,000	23F 263 F 075 DH 1H1	2.000	5.125	0.0069	26.8
	29,000	23F 293 F 075 DI 1H1	2.000	5.625	0.0064	29.0
	22,000	23F 223 F 075 ED 1H1	2.500	3.125	0.0077	23.1
	28,000	23F 283 F 075 EE 1H1	2.500	3.625	0.0065	26.7
	32,000	23F 323 F 075 EF 1H1	2.500	4.125	0.0060	29.5
	38,000	23F 383 F 075 EG 1H1	2.500	4.625	0.0054	32.7
	43,000	23F 433 F 075 EH 1H1	2.500	5.125	0.0050	35.5
	48,000	23F 483 F 075 EI 1H1	2.500	5.625	0.0047	38.2
	32,000	23F 323 F 075 FD 1H1	3.000	3.125	0.0060	29.2
	40,000	23F 403 F 075 FE 1H1	3.000	3.625	0.0052	33.2
	47,000	23F 473 F 075 FF 1H1	3.000	4.125	0.0048	36.8
	55,000	23F 553 F 075 FG 1H1	3.000	4.625	0.0044	40.3
	63,000	23F 633 F 075 FH 1H1	3.000	5.125	0.0041	43.6
	70,000	23F 703 F 075 FI 1H1	3.000	5.625	0.0039	46.6
	73,000	23F 733 F 075 FJ 1H1	3.000	5.875	0.0038	47.5
	80,000	23F 883 F 075 FL 1H1	3.000	8.625	0.0035	59.5

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
80	2,500	23F 252 F 080 BB 1H1	1.375	2.125	0.0470	5.6
	3,500	23F 352 F 080 BC 1H1	1.375	2.625	0.0322	7.5
	4,700	23F 472 F 080 BD 1H1	1.375	3.125	0.0239	9.4
	5,900	23F 592 F 080 BE 1H1	1.375	3.625	0.0194	11.1
	6,800	23F 682 F 080 BF 1H1	1.375	4.125	0.0172	12.5
	8,000	23F 802 F 080 BG 1H1	1.375	4.625	0.0151	14.1
	9,100	23F 912 F 080 BH 1H1	1.375	5.125	0.1370	15.5
	10,000	23F 103 F 080 BI 1H1	1.375	5.625	0.0129	16.8
	4,500	23F 452 F 080 CB 1H1	1.750	2.125	0.0250	8.9
	6,500	23F 652 F 080 CC 1H1	1.750	2.625	0.0179	11.5
	8,600	23F 862 F 080 CD 1H1	1.750	3.125	0.0143	13.8
	11,000	23F 113 F 080 CE 1H1	1.750	3.625	0.0121	16.1
	12,000	23F 123 F 080 CF 1H1	1.750	4.125	0.0114	17.5
	15,000	23F 153 F 080 CG 1H1	1.750	4.625	0.0100	19.7
	17,000	23F 173 F 080 CH 1H1	1.750	5.125	0.0093	21.4
	19,000	23F 193 F 080 CI 1H1	1.750	5.625	0.0088	23.0
	5,900	23F 592 F 080 DB 1H1	2.000	2.125	0.0194	10.9
	8,400	23F 842 F 080 DC 1H1	2.000	2.625	0.0146	13.7
	11,000	23F 113 F 080 DD 1H1	2.000	3.125	0.0121	16.3
	14,000	23F 143 F 080 DE 1H1	2.000	3.625	0.0104	18.7
	16,000	23F 163 F 080 DF 1H1	2.000	4.125	0.0096	20.5
	19,000	23F 193 F 080 DG 1H1	2.000	4.625	0.0088	22.6
	21,000	23F 213 F 080 DH 1H1	2.000	5.125	0.0084	24.2
	24,000	23F 243 F 080 DI 1H1	2.000	5.625	0.0080	26.0
	18,000	23F 183 F 080 ED 1H1	2.500	3.125	0.0091	21.3
	23,000	23F 233 F 080 EE 1H1	2.500	3.625	0.0081	24.0
	26,000	23F 263 F 080 EF 1H1	2.500	4.125	0.0077	26.0
	31,000	23F 313 F 080 EG 1H1	2.500	4.625	0.0072	28.3
	35,000	23F 353 F 080 EH 1H1	2.500	5.125	0.0069	30.2
	39,000	23F 393 F 080 EI 1H1	2.500	5.625	0.0067	32.0
	27,000	23F 273 F 080 FD 1H1	3.000	3.125	0.0076	25.9
	33,000	23F 333 F 080 FE 1H1	3.000	3.625	0.0071	28.6
	38,000	23F 383 F 080 FF 1H1	3.000	4.125	0.0068	30.8
	45,000	23F 453 F 080 FG 1H1	3.000	4.625	0.0065	33.1
	51,000	23F 513 F 080 FH 1H1	3.000	5.125	0.0063	35.2
	57,000	23F 573 F 080 FI 1H1	3.000	5.625	0.0061	37.1
	60,000	23F 603 F 080 FJ 1H1	3.000	5.875	0.0060	37.7
	72,000	23F 723 F 080 FL 1H1	3.000	8.625	0.0058	46.0

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
100	1,300	23F 132 F 100 BB 1H1	1.375	2.125	0.0670	4.7
	1,800	23F 182 F 100 BC 1H1	1.375	2.625	0.0541	5.9
	2,400	23F 242 F 100 BD 1H1	1.375	3.125	0.0406	7.2
	3,000	23F 302 F 100 BE 1H1	1.375	3.625	0.0339	8.4
	3,400	23F 342 F 100 BF 1H1	1.375	4.125	0.0307	9.4
	4,000	23F 402 F 100 BG 1H1	1.375	4.625	0.0270	10.5
	4,600	23F 462 F 100 BH 1H1	1.375	5.125	0.0243	11.7
	5,200	23F 522 F 100 BI 1H1	1.375	5.625	0.0221	12.8
	2,300	23F 232 F 100 CB 1H1	1.750	2.125	0.0421	6.8
	3,300	23F 332 F 100 CC 1H1	1.750	2.625	0.0314	8.7
	4,400	23F 442 F 100 CD 1H1	1.750	3.125	0.0251	10.5
	5,400	23F 542 F 100 CE 1H1	1.750	3.625	0.0215	12.1
	6,300	23F 632 F 100 CF 1H1	1.750	4.125	0.0193	13.5
	7,400	23F 742 F 100 CG 1H1	1.750	4.625	0.0172	15.0
	8,400	23F 842 F 100 CH 1H1	1.750	5.125	0.0158	16.5
	9,400	23F 942 F 100 CI 1H1	1.750	5.625	0.0147	17.8
	3,000	23F 302 F 100 DB 1H1	2.000	2.125	0.0339	8.3
	4,200	23F 422 F 100 DC 1H1	2.000	2.625	0.0260	10.3
	5,600	23F 562 F 100 DD 1H1	2.000	3.125	0.0210	12.3
	7,000	23F 702 F 100 DE 1H1	2.000	3.625	0.0179	14.2
	8,100	23F 812 F 100 DF 1H1	2.000	4.125	0.0162	15.8
	9,600	23F 962 F 100 DG 1H1	2.000	4.625	0.0145	17.6
	11,000	23F 113 F 100 DH 1H1	2.000	5.125	0.0134	19.2
	12,000	23F 123 F 100 DI 1H1	2.000	5.625	0.0127	20.6
	9,300	23F 932 F 100 ED 1H1	2.500	3.125	0.0148	16.7
	12,000	23F 123 F 100 EE 1H1	2.500	3.625	0.0127	19.2
	13,000	23F 133 F 100 EF 1H1	2.500	4.125	0.0121	20.8
	16,000	23F 163 F 100 EG 1H1	2.500	4.625	0.0108	23.1
	18,000	23F 183 F 100 EH 1H1	2.500	5.125	0.0102	24.9
	20,000	23F 203 F 100 EI 1H1	2.500	5.625	0.0097	26.6
	13,000	23F 133 F 100 FD 1H1	3.000	3.125	0.0121	20.5
	17,000	23F 173 F 100 FE 1H1	3.000	3.625	0.0105	23.4
	19,000	23F 193 F 100 FF 1H1	3.000	4.125	0.0100	25.4
	23,000	23F 232 F 100 FG 1H1	3.000	4.625	0.0092	27.8
	26,000	23F 263 F 100 FH 1H1	3.000	5.125	0.0087	29.8
	29,000	23F 293 F 100 FI 1H1	3.000	5.625	0.0083	31.7
	30,000	23F 303 F 100 FJ 1H1	3.000	5.875	0.0082	32.3
37,000	23F 373 F 100 FL 1H1	3.000	8.625	0.0077	40.1	

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150	510	23F 511 F 150 BB 1H1	1.375	2.125	0.2099	2.7
	720	23F 721 F 150 BC 1H1	1.375	2.625	0.1467	3.5
	960	23F 961 F 150 BD 1H1	1.375	3.125	0.1099	4.4
	1,200	23F 122 F 150 BE 1H1	1.375	3.625	0.0883	5.2
	1,400	23F 142 F 150 BF 1H1	1.375	4.125	0.0761	6.0
	1,600	23F 162 F 150 BG 1H1	1.375	4.625	0.0671	6.7
	1,900	23F 192 F 150 BH 1H1	1.375	5.125	0.0572	7.6
	2,100	23F 212 F 150 BI 1H1	1.375	5.625	0.0523	8.3
	920	23F 921 F 150 CB 1H1	1.750	2.125	0.1146	4.1
	1,300	23F 132 F 150 CC 1H1	1.750	2.625	0.0817	5.4
	1,700	23F 172 F 150 CD 1H1	1.750	3.125	0.0634	6.6
	2,200	23F 222 F 150 CE 1H1	1.750	3.625	0.0501	7.9
	2,500	23F 252 F 150 CF 1H1	1.750	4.125	0.0447	8.9
	2,900	23F 292 F 150 CG 1H1	1.750	4.625	0.0393	10.0
	3,400	23F 342 F 150 CH 1H1	1.750	5.125	0.0343	11.2
	3,800	23F 382 F 150 CI 1H1	1.750	5.625	0.0313	12.2
	1,200	23F 122 F 150 DB 1H1	2.000	2.125	0.0883	5.1
	1,700	23F 172 F 150 DC 1H1	2.000	2.625	0.0634	6.6
	2,300	23F 232 F 150 DD 1H1	2.000	3.125	0.0482	8.1
	2,800	23F 282 F 150 DE 1H1	2.000	3.625	0.0405	9.5
	3,200	23F 322 F 150 DF 1H1	2.000	4.125	0.0361	10.6
	3,800	23F 382 F 150 DG 1H1	2.000	4.625	0.0313	12.0
	4,400	23F 442 F 150 DH 1H1	2.000	5.125	0.0278	13.3
	4,900	23F 492 F 150 DI 1H1	2.000	5.625	0.0256	14.5
	3,700	23F 372 F 150 ED 1H1	2.500	3.125	0.0320	11.3
	4,700	23F 472 F 150 EE 1H1	2.500	3.625	0.0264	13.3
	5,400	23F 542 F 150 EF 1H1	2.500	4.125	0.0238	14.8
	6,300	23F 632 F 150 EG 1H1	2.500	4.625	0.0212	16.5
	7,200	23F 722 F 150 EH 1H1	2.500	5.125	0.0193	18.1
	8,000	23F 802 F 150 EI 1H1	2.500	5.625	0.0180	19.6
	5,400	23F 542 F 150 FD 1H1	3.000	3.125	0.0238	14.7
	6,700	23F 672 F 150 FE 1H1	3.000	3.625	0.0203	16.9
	7,800	23F 782 F 150 FF 1H1	3.000	4.125	0.0183	18.8
	9,200	23F 922 F 150 FG 1H1	3.000	4.625	0.0164	20.8
	10,000	23F 103 F 150 FH 1H1	3.000	5.125	0.0156	22.3
	12,000	23F 123 F 150 FI 1H1	3.000	5.625	0.0140	24.5
12,000	23F 123 F 150 FJ 1H1	3.000	5.875	0.0140	24.8	
15,000	23F 153 F 150 FL 1H1	3.000	8.625	0.0124	31.6	

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
200	320	23F 321 F 200 BB 1H1	1.375	2.125	0.2355	3.4
	460	23F 461 F 200 BC 1H1	1.375	2.625	0.1858	3.7
	610	23F 611 F 200 BD 1H1	1.375	3.125	0.1501	4.1
	770	23F 771 F 200 BE 1H1	1.375	3.625	0.1245	4.4
	880	23F 881 F 200 BF 1H1	1.375	4.125	0.1116	4.6
	1,000	23F 102 F 200 BG 1H1	1.375	4.625	0.1003	4.8
	1,200	23F 122 F 200 BH 1H1	1.375	5.125	0.0859	5.2
	1,300	23F 132 F 200 BI 1H1	1.375	5.625	0.0803	5.3
	590	23F 591 F 200 CB 1H1	1.750	2.125	0.1541	5.0
	840	23F 841 F 200 CC 1H1	1.750	2.625	0.1159	5.4
	1,100	23F 112 F 200 CD 1H1	1.750	3.125	0.0925	5.9
	1,400	23F 142 F 200 CE 1H1	1.750	3.625	0.0754	6.3
	1,600	23F 162 F 200 CF 1H1	1.750	4.125	0.0673	6.6
	1,900	23F 192 F 200 CG 1H1	1.750	4.625	0.0582	7.0
	2,200	23F 222 F 200 CH 1H1	1.750	5.125	0.0514	7.3
	2,400	23F 242 F 200 CI 1H1	1.750	5.625	0.0478	7.6
	770	23F 771 F 200 DB 1H1	2.000	2.125	0.1245	6.1
	1,100	23F 112 F 200 DC 1H1	2.000	2.625	0.0925	6.7
	1,400	23F 142 F 200 DD 1H1	2.000	3.125	0.0754	7.1
	1,800	23F 182 F 200 DE 1H1	2.000	3.625	0.0609	7.6
	2,100	23F 212 F 200 DF 1H1	2.000	4.125	0.0535	7.9
	2,500	23F 252 F 200 DG 1H1	2.000	4.625	0.0462	8.3
	2,800	23F 282 F 200 DH 1H1	2.000	5.125	0.0421	8.6
	3,100	23F 312 F 200 DI 1H1	2.000	5.625	0.0388	8.9
	2,400	23F 242 F 200 ED 1H1	2.500	3.125	0.0478	10.0
	3,000	23F 302 F 200 EE 1H1	2.500	3.625	0.0398	10.9
	3,400	23F 342 F 200 EF 1H1	2.500	4.125	0.0360	11.0
	4,000	23F 402 F 200 EG 1H1	2.500	4.625	0.0316	11.3
	4,600	23F 462 F 200 EH 1H1	2.500	5.125	0.0284	11.7
	5,200	23F 522 F 200 EI 1H1	2.500	5.625	0.0259	12.0
	3,400	23F 342 F 200 FD 1H1	3.000	3.125	0.0360	12.8
	4,300	23F 432 F 200 FE 1H1	3.000	3.625	0.0299	13.9
	5,000	23F 502 F 200 FF 1H1	3.000	4.125	0.0267	14.8
	5,800	23F 582 F 200 FG 1H1	3.000	4.625	0.0239	14.8
	6,700	23F 672 F 200 FH 1H1	3.000	5.125	0.0216	15.0
	7,400	23F 742 F 200 FI 1H1	3.000	5.625	0.0202	15.0
	7,700	23F 772 F 200 FJ 1H1	3.000	5.875	0.0196	14.8
	9,300	23F 932 F 200 FL 1H1	3.000	8.625	0.0174	15.0

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Electrolytic Capacitors

23F Series – Extended Temperature Line

Voltage (WVDC)	Capacitance (μF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
250	250	23F 251 F 250 BB 1H1	1.375	2.125	0.3607	2.8
	360	23F 361 F 250 BC 1H1	1.375	2.625	0.2625	3.1
	480	23F 481 F 250 BD 1H1	1.375	3.125	0.2030	3.5
	600	23F 601 F 250 BE 1H1	1.375	3.625	0.1660	3.8
	690	23F 691 F 250 BF 1H1	1.375	4.125	0.1463	4.0
	810	23F 811 F 250 BG 1H1	1.375	4.625	0.1266	4.3
	930	23F 931 F 250 BH 1H1	1.375	5.125	0.1118	4.5
	1,000	23F 102 F 250 BI 1H1	1.375	5.625	0.1048	4.7
	460	23F 461 F 250 CB 1H1	1.750	2.125	0.2109	4.3
	660	23F 661 F 250 CC 1H1	1.750	2.625	0.1523	4.7
	870	23F 871 F 250 CD 1H1	1.750	3.125	0.1187	5.2
	1,100	23F 112 F 250 CE 1H1	1.750	3.625	0.0963	5.6
	1,300	23F 132 F 250 CF 1H1	1.750	4.125	0.0831	5.9
	1,500	23F 152 F 250 CG 1H1	1.750	4.625	0.0733	6.2
	1,700	23F 172 F 250 CH 1H1	1.750	5.125	0.0658	6.5
	1,900	23F 192 F 250 CI 1H1	1.750	5.625	0.0598	6.8
	600	23F 601 F 250 DB 1H1	2.000	2.125	0.1660	5.3
	850	23F 854 F 250 DC 1H1	2.000	2.625	0.1212	5.9
	1,100	23F 112 F 250 DD 1H1	2.000	3.125	0.0963	6.3
	1,400	23F 142 F 250 DE 1H1	2.000	3.625	0.0778	6.7
	1,600	23F 162 F 250 DF 1H1	2.000	4.125	0.0693	6.9
	1,900	23F 192 F 250 DG 1H1	2.000	4.625	0.0598	7.3
	2,200	23F 222 F 250 DH 1H1	2.000	5.125	0.0529	7.7
	2,400	23F 242 F 250 DI 1H1	2.000	5.625	0.0493	7.9
	1,900	23F 192 F 250 ED 1H1	2.500	3.125	0.0598	9.0
	2,300	23F 232 F 250 EE 1H1	2.500	3.625	0.0510	9.6
	2,700	23F 272 F 250 EF 1H1	2.500	4.125	0.0448	9.8
	3,200	23F 322 F 250 EG 1H1	2.500	4.625	0.0391	10.2
	3,600	23F 362 F 250 EH 1H1	2.500	5.125	0.0357	10.4
	4,000	23F 402 F 250 EI 1H1	2.500	5.625	0.0330	10.6
	2,700	23F 272 F 250 FD 1H1	3.000	3.125	0.0448	11.5
	3,400	23F 342 F 250 FE 1H1	3.000	3.625	0.0373	12.4
	3,900	23F 392 F 250 FF 1H1	3.000	4.125	0.0337	13.2
	4,600	23F 462 F 250 FG 1H1	3.000	4.625	0.0298	13.3
	5,200	23F 522 F 250 FH 1H1	3.000	5.125	0.0274	13.3
	5,800	23F 582 F 250 FI 1H1	3.000	5.625	0.0254	13.4
6,000	23F 602 F 250 FJ 1H1	3.000	5.875	0.0249	13.1	
7,300	23F 732 F 250 FL 1H1	3.000	8.625	0.0219	13.3	

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