

### HIGH TEMP INVERTER PRODUCT:

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

### GENERAL SPECIFICATIONS:

Capacitance Range:	150 to 11,000 $\mu$ F
Voltage Range:	200 to 400 WVDC
Capacitance Tolerance:	-10% / +50% Standard
Operating Temperature:	-40°C to +105°C
Life @ 105°C:	2,000 Hrs.
Terminals:	10-32 High Post – Standard for less than 40 Amps RMS. For applications of 40 Amps RMS and above, specify High Current (D) or (N) terminal assembly.

### RIPPLE CURRENT APPLICATION GUIDELINES:

RIPPLE CURRENT FREQUENCY MULTIPLIERS					
100 Hz	120 Hz	400 Hz	4 KHz	10 KHz	20 KHz
0.95	1.00	1.10	1.12	1.15	1.18

RIPPLE CURRENT TEMPERATURE MULTIPLIERS					
85	75	65	55	45	35
1.0	1.4	2.0	2.3	2.5	2.7

FOR COMPLETE APPLICATION SPECIFICATION DETAILS SEE  
APPLICATION GUIDELINES SECTION OF CATALOG



## 23J Series – High Temperature Inverter Grade

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	480	23J 481 F 200 BB 1H1	1.375	2.125	0.1430	4.4
	670	23J 671 F 200 BC 1H1	1.375	2.625	0.1020	5.0
	840	23J 841 F 200 BD 1H1	1.375	3.125	0.0820	5.5
	1,000	23J 102 F 200 BE 1H1	1.375	3.625	0.0830	5.4
	1,200	23J 122 F 200 BF 1H1	1.375	4.125	0.0690	5.9
	1,300	23J 132 F 200 BG 1H1	1.375	4.625	0.0640	6.0
	1,500	23J 152 F 200 BH 1H1	1.375	5.125	0.0550	6.5
	1,700	23J 172 F 200 BI 1H1	1.375	5.625	0.0490	6.8
	880	23J 881 F 200 CB 1H1	1.750	2.125	0.0780	7.1
	1,200	23J 122 F 200 CC 1H1	1.750	2.625	0.0690	7.1
	1,500	23J 152 F 200 CD 1H1	1.750	3.125	0.0550	7.6
	1,800	23J 182 F 200 CE 1H1	1.750	3.625	0.0460	8.1
	2,200	23J 222 F 200 CF 1H1	1.750	4.125	0.0370	8.9
	2,400	23J 242 F 200 CG 1H1	1.750	4.625	0.0340	9.1
	2,700	23J 272 F 200 CH 1H1	1.750	5.125	0.0300	9.6
	3,100	23J 312 F 200 CI 1H1	1.750	5.625	0.0260	10.3
	930	23J 931 F 200 DB 1H1	2.000	2.125	0.0740	7.9
	1,300	23J 132 F 200 DC 1H1	2.000	2.625	0.0640	8.1
	1,700	23J 172 F 200 DD 1H1	2.000	3.125	0.0490	8.8
	2,200	23J 222 F 200 DE 1H1	2.000	3.625	0.0370	9.7
	2,500	23J 252 F 200 DF 1H1	2.000	4.125	0.0330	10.0
	3,000	23J 302 F 200 DG 1H1	2.000	4.625	0.0270	10.9
	3,400	23J 342 F 200 DH 1H1	2.000	5.125	0.0240	11.4
	3,800	23J 382 F 200 DI 1H1	2.000	5.625	0.0210	12.1
	2,900	23J 292 F 200 ED 1H1	2.500	3.125	0.0280	13.1
	3,600	23J 362 F 200 EE 1H1	2.500	3.625	0.0230	14.4
	4,200	23J 422 F 200 EF 1H1	2.500	4.125	0.0190	15.1
	4,900	23J 492 F 200 EG 1H1	2.500	4.625	0.0170	15.5
	5,600	23J 562 F 200 EH 1H1	2.500	5.125	0.0140	16.7
	6,300	23J 632 F 200 EI 1H1	2.500	5.625	0.0130	17.0
	4,200	23J 422 F 200 FD 1H1	3.000	3.125	0.0190	17.6
	5,300	23J 532 F 200 FE 1H1	3.000	3.625	0.0150	19.6
	6,100	23J 612 F 200 FF 1H1	3.000	4.125	0.0130	21.2
	7,200	23J 722 F 200 FG 1H1	3.000	4.625	0.0110	21.8
	8,200	23J 822 F 200 FH 1H1	3.000	5.125	0.0100	22.0
	9,100	23J 912 F 200 FI 1H1	3.000	5.625	0.0091	22.4
	11,000	23J 113 F 200 FL 1H1	3.000	8.625	0.0075	22.7

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# Electrolytic Capacitors

## 23J Series – High Temperature Inverter Grade

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	400	23J 401 F 250 BB 1H1	1.375	2.125	0.1620	4.1
	560	23J 561 F 250 BC 1H1	1.375	2.625	0.1160	4.7
	710	23J 711 F 250 BD 1H1	1.375	3.125	0.0910	5.2
	860	23J 861 F 250 BE 1H1	1.375	3.625	0.0750	5.7
	1,000	23J 102 F 250 BF 1H1	1.375	4.125	0.0720	5.7
	1,100	23J 112 F 250 BG 1H1	1.375	4.625	0.0660	6.0
	1,200	23J 122 F 250 BH 1H1	1.375	5.125	0.0600	6.2
	1,400	23J 142 F 250 BI 1H1	1.375	5.625	0.0520	6.6
	740	23J 741 F 250 CB 1H1	1.750	2.125	0.0870	6.7
	1,000	23J 102 F 250 CC 1H1	1.750	2.625	0.0720	6.9
	1,200	23J 122 F 250 CD 1H1	1.750	3.125	0.0600	7.3
	1,500	23J 152 F 250 CE 1H1	1.750	3.625	0.0480	7.9
	1,800	23J 182 F 250 CF 1H1	1.750	4.125	0.0400	8.5
	2,000	23J 202 F 250 CG 1H1	1.750	4.625	0.0360	8.9
	2,300	23J 232 F 250 CH 1H1	1.750	5.125	0.0310	9.5
	2,600	23J 262 F 250 CI 1H1	1.750	5.625	0.0280	9.9
	780	23J 781 F 250 DB 1H1	2.000	2.125	0.0830	7.5
	1,100	23J 112 F 250 DC 1H1	2.000	2.625	0.0660	8.0
	1,400	23J 142 F 250 DD 1H1	2.000	3.125	0.0520	8.5
	1,800	23J 182 F 250 DE 1H1	2.000	3.625	0.0400	9.4
	2,100	23J 212 F 250 DF 1H1	2.000	4.125	0.0340	9.9
	2,500	23J 252 F 250 DG 1H1	2.000	4.625	0.0290	10.5
	2,800	23J 282 F 250 DH 1H1	2.000	5.125	0.0260	11.0
	3,200	23J 322 F 250 DI 1H1	2.000	5.625	0.0220	11.8
	2,400	23J 242 F 250 ED 1H1	2.500	3.125	0.0300	12.7
	3,000	23J 302 F 250 EE 1H1	2.500	3.625	0.0240	14.1
	3,500	23J 352 F 250 EF 1H1	2.500	4.125	0.0200	14.7
	4,100	23J 412 F 250 EG 1H1	2.500	4.625	0.0170	15.5
	4,700	23J 472 F 250 EH 1H1	2.500	5.125	0.0150	16.1
	5,300	23J 532 F 250 EI 1H1	2.500	5.625	0.0130	17.0
	3,500	23J 352 F 250 FD 1H1	3.000	3.125	0.0200	17.2
	4,400	23J 442 F 250 FE 1H1	3.000	3.625	0.0160	19.0
	5,100	23J 512 F 250 FF 1H1	3.000	4.125	0.0140	20.4
	6,000	23J 602 F 250 FG 1H1	3.000	4.625	0.0120	20.9
	6,900	23J 692 F 250 FH 1H1	3.000	5.125	0.0100	22.0
	7,700	23J 772 F 250 FI 1H1	3.000	5.625	0.0094	22.1
9,600	23J 962 F 250 FL 1H1	3.000	8.625	0.0079	22.7	

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Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
<b>300</b>	310	23J 311 F 300 BB 1H1	1.375	2.125	0.1710	4.0
	430	23J 431 F 300 BC 1H1	1.375	2.625	0.1230	4.5
	540	23J 541 F 300 BD 1H1	1.375	3.125	0.0980	5.0
	660	23J 661 F 300 BE 1H1	1.375	3.625	0.0800	5.5
	770	23J 771 F 300 BF 1H1	1.375	4.125	0.0680	5.9
	860	23J 861 F 300 BG 1H1	1.375	4.625	0.0610	6.1
	970	23J 971 F 300 BH 1H1	1.375	5.125	0.0540	6.5
	1,100	23J 112 F 300 BI 1H1	1.375	5.625	0.0570	6.3
	560	23J 561 F 300 CB 1H1	1.750	2.125	0.0940	6.4
	790	23J 791 F 300 CC 1H1	1.750	2.625	0.0670	7.1
	980	23J 981 F 300 CD 1H1	1.750	3.125	0.0540	7.6
	1,200	23J 122 F 300 CE 1H1	1.750	3.625	0.0520	7.6
	1,400	23J 142 F 300 CF 1H1	1.750	4.125	0.0440	8.1
	1,500	23J 152 F 300 CG 1H1	1.750	4.625	0.0410	8.3
	1,700	23J 172 F 300 CH 1H1	1.750	5.125	0.0370	8.6
	2,000	23J 202 F 300 CI 1H1	1.750	5.625	0.0310	9.3
	600	23J 601 F 300 DB 1H1	2.000	2.125	0.0880	7.2
	850	23J 851 F 300 DC 1H1	2.000	2.625	0.0620	8.2
	1,100	23J 112 F 300 DD 1H1	2.000	3.125	0.0570	8.1
	1,400	23J 142 F 300 DE 1H1	2.000	3.625	0.0440	8.9
	1,600	23J 162 F 300 DF 1H1	2.000	4.125	0.0390	9.2
	1,900	23J 192 F 300 DG 1H1	2.000	4.625	0.0330	9.8
	2,200	23J 222 F 300 DH 1H1	2.000	5.125	0.0280	10.5
	2,400	23J 242 F 300 DI 1H1	2.000	5.625	0.0260	10.8
	1,800	23J 182 F 300 ED 1H1	2.500	3.125	0.0340	11.9
	2,300	23J 232 F 300 EE 1H1	2.500	3.625	0.0270	13.2
	2,600	23J 262 F 300 EF 1H1	2.500	4.125	0.0240	13.4
	3,100	23J 312 F 300 EG 1H1	2.500	4.625	0.0200	14.2
	3,600	23J 362 F 300 EH 1H1	2.500	5.125	0.0170	15.1
	4,000	23J 402 F 300 EI 1H1	2.500	5.625	0.0150	15.8
	2,700	23J 272 F 300 FD 1H1	3.000	3.125	0.0230	16.0
	3,400	23J 342 F 300 FE 1H1	3.000	3.625	0.0180	17.9
	3,900	23J 392 F 300 FF 1H1	3.000	4.125	0.0160	19.1
	4,600	23J 462 F 300 FG 1H1	3.000	4.625	0.0130	20.0
	5,200	23J 522 F 300 FH 1H1	3.000	5.125	0.0120	20.0
	5,800	23J 582 F 300 FI 1H1	3.000	5.625	0.0100	21.4
	7,300	23J 732 F 300 FL 1H1	3.000	8.625	0.0860	21.2

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350	210	23J 211 F 350 BB 1H1	1.375	2.125	0.3090	2.9
	290	23J 291 F 350 BC 1H1	1.375	2.625	0.2240	3.4
	360	23J 361 F 350 BD 1H1	1.375	3.125	0.1800	3.7
	440	23J 441 F 350 BE 1H1	1.375	3.625	0.1470	4.0
	520	23J 521 F 350 BF 1H1	1.375	4.125	0.1240	4.3
	590	23J 591 F 350 BG 1H1	1.375	4.625	0.1100	4.6
	660	23J 661 F 350 BH 1H1	1.375	5.125	0.0980	4.8
	750	23J 751 F 350 BI 1H1	1.375	5.625	0.0860	5.1
	380	23J 381 F 350 CB 1H1	1.750	2.125	0.1710	4.7
	530	23J 531 F 350 CC 1H1	1.750	2.625	0.1220	5.3
	670	23J 671 F 350 CD 1H1	1.750	3.125	0.0960	5.7
	810	23J 811 F 350 CE 1H1	1.750	3.625	0.0800	6.1
	950	23J 951 F 350 CF 1H1	1.750	4.125	0.0680	6.5
	1,000	23J 102 F 350 CG 1H1	1.750	4.625	0.0640	6.6
	1,200	23J 122 F 350 CH 1H1	1.750	5.125	0.0580	6.9
	1,300	23J 132 F 350 CI 1H1	1.750	5.625	0.0530	7.1
	400	23J 401 F 350 DB 1H1	2.000	2.125	0.1620	5.3
	580	23J 581 F 350 DC 1H1	2.000	2.625	0.1120	6.1
	770	23J 771 F 350 DD 1H1	2.000	3.125	0.0840	6.6
	960	23J 961 F 350 DE 1H1	2.000	3.625	0.0670	7.2
	1,100	23J 112 F 350 DF 1H1	2.000	4.125	0.0630	7.2
	1,300	23J 132 F 350 DG 1H1	2.000	4.625	0.0530	7.7
	1,400	23J 142 F 350 DH 1H1	2.000	5.125	0.0490	7.9
	1,600	23J 162 F 350 DI 1H1	2.000	5.625	0.0430	8.4
	1,200	23J 122 F 350 ED 1H1	2.500	3.125	0.0580	9.1
	1,500	23J 152 F 350 EE 1H1	2.500	3.625	0.0460	10.1
	1,800	23J 182 F 350 EF 1H1	2.500	4.125	0.0380	10.6
	2,100	23J 212 F 350 EG 1H1	2.500	4.625	0.0330	11.1
	2,400	23J 242 F 350 EH 1H1	2.500	5.125	0.0290	11.5
	2,700	23J 272 F 350 EI 1H1	2.500	5.625	0.0250	12.2
	1,800	23J 182 F 350 FD 1H1	3.000	3.125	0.0380	12.4
	2,300	23J 232 F 350 FE 1H1	3.000	3.625	0.0300	13.8
	2,600	23J 262 F 350 FF 1H1	3.000	4.125	0.0260	14.9
	3,100	23J 312 F 350 FG 1H1	3.000	4.625	0.0220	15.4
	3,500	23J 352 F 350 FH 1H1	3.000	5.125	0.0190	15.9
	3,900	23J 392 F 350 FI 1H1	3.000	5.625	0.0170	16.4
4,900	23J 492 F 350 FL 1H1	3.000	8.625	0.0140	16.6	

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## 23J Series – High Temperature Inverter Grade

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (in.)	Height C (in.)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@85°C
400	150	23J 151 F 400 BB 1H1	1.375	2.125	0.3970	2.6
	210	23J 211 F 400 BC 1H1	1.375	2.625	0.2840	3.0
	260	23J 261 F 400 BD 1H1	1.375	3.125	0.2290	3.3
	320	23J 321 F 400 BE 1H1	1.375	3.625	0.1860	3.6
	380	23J 381 F 400 BF 1H1	1.375	4.125	0.1570	3.8
	420	23J 421 F 400 BG 1H1	1.375	4.625	0.1420	4.0
	480	23J 481 F 400 BH 1H1	1.375	5.125	0.1240	4.3
	540	23J 541 F 400 BI 1H1	1.375	5.625	0.1100	4.5
	270	23J 271 F 400 CB 1H1	1.750	2.125	0.2210	4.2
	390	23J 391 F 400 CC 1H1	1.750	2.625	0.1530	4.7
	480	23J 481 F 400 CD 1H1	1.750	3.125	0.1240	5.0
	590	23J 591 F 400 CE 1H1	1.750	3.625	0.1010	5.4
	690	23J 691 F 400 CF 1H1	1.750	4.125	0.0860	5.8
	780	23J 781 F 400 CG 1H1	1.750	4.625	0.0860	6.1
	870	23J 871 F 400 CH 1H1	1.750	5.125	0.0680	6.3
	990	23J 991 F 400 CI 1H1	1.750	5.625	0.0600	6.7
	290	23J 291 F 400 DB 1H1	2.000	2.125	0.2050	4.7
	420	23J 421 F 400 DC 1H1	2.000	2.625	0.1420	5.4
	560	23J 561 F 400 DD 1H1	2.000	3.125	0.1060	5.9
	700	23J 701 F 400 DE 1H1	2.000	3.625	0.0850	6.4
	810	23J 811 F 400 DF 1H1	2.000	4.125	0.0730	6.7
	950	23J 951 F 400 DG 1H1	2.000	4.625	0.0620	7.1
	1,000	23J 102 F 400 DH 1H1	2.000	5.125	0.0590	7.2
	1,200	23J 122 F 400 DI 1H1	2.000	5.625	0.0550	7.4
	920	23J 921 F 400 ED 1H1	2.500	3.125	0.0640	8.6
	1,100	23J 112 F 400 EE 1H1	2.500	3.625	0.0600	8.9
	1,300	23J 132 F 400 EF 1H1	2.500	4.125	0.0510	9.2
	1,500	23J 152 F 400 EG 1H1	2.500	4.625	0.0440	9.6
	1,700	23J 172 F 400 EH 1H1	2.500	5.125	0.0390	9.9
	1,900	23J 192 F 400 EI 1H1	2.500	5.625	0.0340	10.4
	1,300	23J 132 F 400 FD 1H1	3.000	3.125	0.0510	10.7
	1,600	23J 162 F 400 FE 1H1	3.000	3.625	0.0410	11.8
	1,900	23J 192 F 400 FF 1H1	3.000	4.125	0.0340	13.1
	2,200	23J 222 F 400 FG 1H1	3.000	4.625	0.0300	13.2
	2,500	23J 252 F 400 FH 1H1	3.000	5.125	0.0260	13.6
	2,800	23J 282 F 400 FI 1H1	3.000	5.625	0.0230	14.1
3,600	23J 362 F 400 FL 1H1	3.000	8.625	0.0180	14.6	

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