

23 U 12 2 M 200 RS 1 A 1

Electrolytic Capacitor

Series Type:

T = High Temperature (105°C)
 U = High Ripple (105°C)
 V = High Capacitance (85°C)
 W = Long Life (85°C)

uF Rating (pt. 1): Number

12 uF

uF Rating (pt. 2): # of Zeros

00 uF

Capacitance Tolerance:

M = ±20%

DC Voltage Rating:

Zeros are used to precede the voltage rating where necessary to make a 3 digit number

Case Size/Height:

First letter, Diameter		Second letter, Height	
Base Code	Size	Height Code	Size
O	20mm	O	20mm
P	22mm	P	22mm
Q	25mm	Q	25mm
R	30mm	R	30mm
S	35mm	S	35mm
T	40mm	T	40mm
U	45mm	U	45mm
V	50mm	V	50mm
		W	55mm
		X	63mm
		Y	70mm
		Z	80mm

Sleeve Type:

1 = Std PVC Sleeve
 2 = PET Sleeve
 3 = Special Sleeve

Terminal Types (Standard):

A = 2 PIN
 B = 3 PIN
 C = 4 PIN

Design Number: Assigned by Factory.
 Enter 1 unless advised by factory

Data from Example Part Nbr Above:

Series Type:	High Temperature
uF Rating:	1200uF
Capacitance Tolerance:	±20%
Voltage Rating:	200VDC
Case Size / Height:	30mm / 35mm
Sleeve Type:	Std PVC Sleeve
Terminal Type:	2 PIN



HIGH RIPPLER PRODUCT LINE:

- Broad Capacitance Range
- 105°C Operation Temperature
- Low ESR
- Standard Ratings

GENERAL SPECIFICATIONS:

Capacitance Range:	100 to 100,000µF
Voltage Range:	10 to 450 WVDC
Capacitance Tolerance:	±20% Standard
Operating Temperature:	-40°C to +105°C
Life @ 105°C:	2,000 Hrs.
Terminals:	2 PIN
	(Other terminal configurations available)

RIPPLE CURRENT APPLICATION GUIDELINES:

	RIPPLE CURRENT FREQUENCY MULTIPLIERS					
	10 KHz +	1 KHz	500 Hz	120 Hz	60 Hz	50 Hz
16-100 VDC	1.15	1.08	1.05	1.00	0.95	0.93
160-450 VDC	1.40	1.25	1.20	1.00	0.80	0.75

RIPPLE CURRENT TEMPERATURE MULTIPLIERS				
105°C	85°C	70°C	60°C	45°C
1.00	1.70	2.00	2.20	2.35

FOR COMPLETE APPLICATION SPECIFICATION DETAILS SEE APPLICATION GUIDELINES SECTION OF CATALOG



Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
10	12,000	23U 123 M 010 PQ 1A1	22	25	0.0760	2.20
	18,000	23U 183 M 010 PR 1A1	22	30	0.0510	2.40
	18,000	23U 183 M 010 QQ 1A1	25	25	0.0510	2.40
	22,000	23U 223 M 010 PS 1A1	22	35	0.0410	2.60
	22,000	23U 223 M 010 QR 1A1	25	30	0.0410	2.60
	27,000	23U 273 M 010 PT 1A1	22	40	0.0340	3.10
	27,000	23U 273 M 010 QS 1A1	25	35	0.0340	3.10
	27,000	23U 273 M 010 RQ 1A1	30	25	0.0340	3.10
	33,000	23U 333 M 010 PU 1A1	22	45	0.0280	3.40
	33,000	23U 333 M 010 QT 1A1	25	40	0.0280	3.40
	39,000	23U 393 M 010 QU 1A1	25	45	0.0260	3.70
	39,000	23U 393 M 010 RR 1A1	30	30	0.0260	3.70
	39,000	23U 393 M 010 SQ 1A1	35	25	0.0260	3.70
	47,000	23U 473 M 010 QV 1A1	25	50	0.0240	4.20
	47,000	23U 473 M 010 RS 1A1	30	35	0.0240	4.20
	47,000	23U 473 M 010 SR 1A1	35	30	0.0240	4.20
	56,000	23U 563 M 010 RT 1A1	30	40	0.0230	5.00
	56,000	23U 563 M 010 SS 1A1	35	35	0.0230	5.00
	68,000	23U 683 M 010 RU 1A1	30	45	0.0220	5.40
	68,000	23U 683 M 010 ST 1A1	35	40	0.0220	5.40
82,000	23U 823 M 010 SU 1A1	35	45	0.0210	6.10	
100,000	23U 104 M 010 SV 1A1	35	50	0.0200	6.90	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
16	10,000	23U 103 M 016 PQ 1A1	22	25	0.0750	2.60
	12,000	23U 123 M 016 PR 1A1	22	30	0.0620	2.90
	12,000	23U 123 M 016 QQ 1A1	25	25	0.0620	2.90
	15,000	23U 153 M 016 PS 1A1	22	35	0.0500	3.20
	18,000	23U 183 M 016 PT 1A1	22	40	0.0410	3.50
	18,000	23U 183 M 016 QR 1A1	25	30	0.0410	3.50
	22,000	23U 223 M 016 PU 1A1	22	45	0.0340	3.80
	22,000	23U 223 M 016 QS 1A1	25	35	0.0340	3.80
	22,000	23U 223 M 016 RQ 1A1	30	25	0.0340	3.80
	27,000	23U 273 M 016 PV 1A1	22	50	0.0280	4.20
	27,000	23U 273 M 016 QT 1A1	25	40	0.0280	4.20
	27,000	23U 273 M 016 RR 1A1	30	30	0.0280	4.20
	27,000	23U 273 M 016 SQ 1A1	35	25	0.0280	4.20
	33,000	23U 333 M 016 QU 1A1	25	45	0.0230	4.70
	33,000	23U 333 M 016 RS 1A1	30	35	0.0230	4.70
	33,000	23U 333 M 016 SR 1A1	35	30	0.0230	4.70
	39,000	23U 393 M 016 RT 1A1	30	40	0.0220	5.10
	39,000	23U 393 M 016 SS 1A1	35	35	0.0220	5.10
	47,000	23U 473 M 016 RU 1A1	30	45	0.0160	5.50
	47,000	23U 473 M 016 ST 1A1	35	40	0.0210	5.50
56,000	23U 563 M 016 RV 1A1	30	50	0.0200	6.00	
56,000	23U 563 M 016 SU 1A1	35	45	0.0200	6.00	

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
25	6,800	23U 682 M 025 PQ 1A1	22	25	0.0850	2.40
	8,200	23U 822 M 025 PR 1A1	22	30	0.0710	2.70
	8,200	23U 822 M 025 QQ 1A1	25	25	0.0710	2.70
	10,000	23U 103 M 025 PS 1A1	22	35	0.0580	3.00
	12,000	23U 123 M 025 PT 1A1	22	40	0.0480	3.20
	12,000	23U 123 M 025 QR 1A1	25	30	0.0480	3.20
	15,000	23U 153 M 025 PU 1A1	22	45	0.0390	3.60
	15,000	23U 153 M 025 QS 1A1	25	35	0.0390	3.60
	15,000	23U 153 M 025 RQ 1A1	30	25	0.0390	3.60
	18,000	23U 183 M 025 PV 1A1	22	50	0.0320	3.90
	18,000	23U 183 M 025 QT 1A1	25	40	0.0320	3.90
	18,000	23U 183 M 025 RR 1A1	30	30	0.0320	3.90
	18,000	23U 183 M 025 SQ 1A1	35	25	0.0320	3.90
	22,000	23U 223 M 025 QU 1A1	25	45	0.0260	4.30
	22,000	23U 223 M 025 RS 1A1	30	35	0.0260	4.30
	22,000	23U 223 M 025 SR 1A1	35	30	0.0260	4.30
	27,000	23U 273 M 025 RT 1A1	30	40	0.0210	4.80
	27,000	23U 273 M 025 SS 1A1	35	35	0.0210	4.80
	33,000	23U 333 M 025 RU 1A1	30	45	0.0180	5.50
	33,000	23U 333 M 025 ST 1A1	35	40	0.0180	5.50
39,000	23U 393 M 025 RV 1A1	30	50	0.0170	5.80	
39,000	23U 393 M 025 SU 1A1	35	45	0.0170	5.80	
47,000	23U 473 M 025 SV 1A1	35	50	0.0170	6.30	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
35	4,700	23U 472 M 035 PQ 1A1	22	25	0.1060	2.20
	5,600	23U 562 M 035 PR 1A1	22	30	0.0890	2.40
	5,600	23U 562 M 035 QQ 1A1	25	25	0.0890	2.40
	6,800	23U 682 M 035 PS 1A1	22	35	0.0730	2.60
	8,200	23U 822 M 035 PT 1A1	22	40	0.0610	2.90
	8,200	23U 822 M 035 QR 1A1	25	30	0.0610	2.90
	10,000	23U 103 M 035 PU 1A1	22	45	0.0500	3.20
	10,000	23U 103 M 035 QS 1A1	25	35	0.0500	3.20
	10,000	23U 103 M 035 RQ 1A1	30	25	0.0500	3.20
	12,000	23U 123 M 035 QT 1A1	25	40	0.0410	3.50
	12,000	23U 123 M 035 RR 1A1	30	30	0.0410	3.50
	12,000	23U 123 M 035 SQ 1A1	35	25	0.0410	3.50
	15,000	23U 153 M 035 QU 1A1	25	45	0.0330	3.90
	15,000	23U 153 M 035 RS 1A1	30	35	0.0330	3.90
	15,000	23U 153 M 035 SR 1A1	35	30	0.0330	3.90
	18,000	23U 183 M 035 RT 1A1	30	40	0.0280	4.30
	18,000	23U 183 M 035 SS 1A1	35	35	0.0280	4.30
	22,000	23U 223 M 035 RU 1A1	30	45	0.0230	5.00
	22,000	23U 223 M 035 ST 1A1	35	40	0.0230	5.00
	27,000	23U 273 M 035 RV 1A1	30	50	0.0180	5.30
27,000	23U 273 M 035 SU 1A1	35	45	0.0180	5.30	
33,000	23U 333 M 035 SV 1A1	35	50	0.0150	5.90	

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
50	2,700	23U 272 M 050 PQ 1A1	22	25	0.1540	1.80
	3,300	23U 332 M 050 PR 1A1	22	30	0.1260	2.00
	3,900	23U 392 M 050 PS 1A1	22	35	0.1060	2.20
	3,900	23U 392 M 050 QQ 1A1	25	25	0.1060	2.20
	4,700	23U 472 M 050 PT 1A1	22	40	0.0880	2.50
	4,700	23U 472 M 050 QR 1A1	25	30	0.0880	2.50
	5,600	23U 562 M 050 PU 1A1	22	45	0.0740	2.80
	5,600	23U 562 M 050 QS 1A1	25	35	0.0740	2.80
	4,700	23U 472 M 050 PT 1A1	22	40	0.0880	2.50
	4,700	23U 472 M 050 QR 1A1	25	30	0.0880	2.50
	5,600	23U 562 M 050 PU 1A1	22	45	0.0740	2.80
	5,600	23U 562 M 050 QS 1A1	25	35	0.0740	2.80
	5,600	23U 562 M 050 RQ 1A1	30	25	0.0740	2.80
	6,800	23U 682 M 050 PV 1A1	22	50	0.0610	3.30
	6,800	23U 682 M 050 QT 1A1	25	40	0.0610	3.30
	6,800	23U 682 M 050 RR 1A1	30	30	0.0610	3.30
	6,800	23U 682 M 050 SQ 1A1	35	25	0.0610	3.30
	8,200	23U 822 M 050 QU 1A1	25	45	0.0510	3.60
	8,200	23U 822 M 050 RS 1A1	30	35	0.0510	3.60
	10,000	23U 103 M 050 QV 1A1	25	50	0.0410	4.00
10,000	23U 103 M 050 RT 1A1	30	40	0.0410	4.00	
10,000	23U 103 M 050 SR 1A1	35	30	0.0410	4.00	
12,000	23U 123 M 050 RU 1A1	30	45	0.0350	4.50	
12,000	23U 123 M 050 SS 1A1	35	35	0.0350	4.50	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
63	2,200	23U 222 M 063 PQ 1A1	22	25	0.1510	2.00
	2,700	23U 272 M 063 PR 1A1	22	30	0.1230	2.20
	2,700	23U 272 M 063 QQ 1A1	25	25	0.1230	2.20
	3,300	23U 332 M 063 PS 1A1	22	35	0.1000	2.50
	3,900	23U 392 M 063 PT 1A1	22	40	0.0850	2.70
	3,900	23U 392 M 063 QR 1A1	25	30	0.0850	2.70
	3,900	23U 392 M 063 RQ 1A1	30	25	0.0850	2.70
	4,700	23U 472 M 063 PU 1A1	22	45	0.0710	3.00
	4,700	23U 472 M 063 QS 1A1	25	35	0.0710	3.00
	5,600	23U 562 M 063 PV 1A1	22	50	0.0590	3.30
	5,600	23U 562 M 063 QT 1A1	25	40	0.0590	3.30
	5,600	23U 562 M 063 RR 1A1	30	30	0.0590	3.30
	5,600	23U 562 M 063 SQ 1A1	35	25	0.0590	3.30
	6,800	23U 682 M 063 QU 1A1	25	45	0.0490	3.60

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
80	6,800	23U 682 M 080 RS 1A1	30	35	0.0490	3.60
	6,800	23U 682 M 080 SR 1A1	35	30	0.0490	3.60
	8,200	23U 822 M 080 RT 1A1	30	40	0.0400	3.90
	8,200	23U 822 M 080 SS 1A1	35	35	0.0400	3.90
	10,000	23U 103 M 080 RU 1A1	30	45	0.0330	4.40
	10,000	23U 103 M 080 ST 1A1	35	40	0.0330	4.40
	12,000	23U 123 M 080 RV 1A1	30	50	0.0280	4.80
	12,000	23U 123 M 080 SU 1A1	35	45	0.0280	4.80
	15,000	23U 153 M 080 SV 1A1	35	50	0.0220	5.40
	1,200	23U 122 M 080 PQ 1A1	22	25	0.2350	1.50
	1,500	23U 152 M 080 PR 1A1	22	30	0.1880	1.70
	1,500	23U 152 M 080 QQ 1A1	25	25	0.1880	1.70
	1,800	23U 182 M 080 PS 1A1	22	35	0.1570	1.80
	2,200	23U 222 M 080 PT 1A1	22	40	0.1280	2.10
	2,200	23U 222 M 080 QR 1A1	25	30	0.1280	2.10
	2,700	23U 272 M 080 PU 1A1	22	45	0.1040	2.40
	2,700	23U 272 M 080 QS 1A1	25	35	0.1040	2.40
	2,700	23U 272 M 080 RQ 1A1	30	25	0.1040	2.40
	3,300	23U 332 M 080 PV 1A1	22	50	0.0850	2.60
	3,300	23U 332 M 080 QT 1A1	25	40	0.0850	2.60
	3,300	23U 332 M 080 RR 1A1	30	30	0.0850	2.60
	3,300	23U 332 M 080 SQ 1A1	35	25	0.0850	2.60
	3,900	23U 392 M 080 QU 1A1	25	45	0.0720	3.00
	3,900	23U 392 M 080 RS 1A1	30	35	0.0720	3.00
	4,700	23U 472 M 080 QV 1A1	25	50	0.0600	3.30
	4,700	23U 472 M 080 RT 1A1	30	40	0.0600	3.30
	4,700	23U 472 M 080 SR 1A1	35	30	0.0600	3.30
	5,600	23U 562 M 080 RU 1A1	30	45	0.0500	3.70
	5,600	23U 562 M 080 SS 1A1	35	35	0.0500	3.70
	6,800	23U 682 M 080 RV 1A1	30	50	0.0410	3.90
6,800	23U 682 M 080 ST 1A1	35	40	0.0410	3.90	
8,200	23U 822 M 080 SU 1A1	35	45	0.0340	4.50	

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
100	820	23U 821 M 100 PQ 1A1	22	25	0.3030	1.40
	1,200	23U 122 M 100 PR 1A1	22	30	0.2070	1.80
	1,200	23U 122 M 100 QQ 1A1	25	25	0.2070	1.80
	1,500	23U 152 M 100 PS 1A1	22	35	0.1660	2.10
	1,500	23U 152 M 100 QR 1A1	25	30	0.1660	2.10
	1,800	23U 182 M 100 PT 1A1	22	40	0.1380	2.30
	1,800	23U 182 M 100 QS 1A1	25	35	0.1380	2.30
	1,800	23U 182 M 100 RQ 1A1	30	25	0.1380	2.30
	2,200	23U 222 M 100 PU 1A1	22	45	0.1130	2.60
	2,200	23U 222 M 100 QT 1A1	25	40	0.1130	2.60
	2,200	23U 222 M 100 RR 1A1	30	30	0.1130	2.60
	2,200	23U 222 M 100 SQ 1A1	35	25	0.1130	2.60
	2,700	23U 272 M 100 QU 1A1	25	45	0.0920	2.90
	2,700	23U 272 M 100 RS 1A1	30	35	0.0920	2.90
	3,300	23U 332 M 100 QV 1A1	25	50	0.0750	3.20
	3,300	23U 332 M 100 RT 1A1	30	40	0.0750	3.20
	3,300	23U 332 M 100 SR 1A1	35	30	0.0750	3.20
	3,900	23U 392 M 100 RU 1A1	30	45	0.0640	3.60
	3,900	23U 392 M 100 SS 1A1	35	35	0.0640	3.60
	4,700	23U 472 M 100 RV 1A1	30	50	0.0530	3.80
4,700	23U 472 M 100 ST 1A1	35	40	0.0530	3.80	
5,600	23U 562 M 100 SU 1A1	35	45	0.0440	4.20	
6,800	23U 682 M 100 SV 1A1	35	50	0.0370	4.70	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
160	470	23U 471 M 160 PQ 1A1	22	25	0.4230	1.40
	560	23U 561 M 160 PR 1A1	22	30	0.3550	1.50
	680	23U 681 M 160 PR 1A1	22	30	0.2930	1.70
	680	23U 681 M 160 QQ 1A1	25	25	0.2930	1.70
	820	23U 821 M 160 PS 1A1	22	35	0.2430	2.00
	820	23U 821 M 160 QR 1A1	25	30	0.2430	2.00
	1,000	23U 102 M 160 PT 1A1	22	40	0.1990	2.20
	1,000	23U 102 M 160 QS 1A1	25	35	0.1990	2.20
	1,000	23U 102 M 160 RQ 1A1	30	25	0.2160	2.20
	1,200	23U 122 M 160 PU 1A1	22	45	0.1660	2.30
	1,200	23U 122 M 160 QT 1A1	25	40	0.1660	2.30
	1,200	23U 122 M 160 RR 1A1	30	30	0.1660	2.30
	1,200	23U 122 M 160 SQ 1A1	35	25	0.1800	2.30
	1,500	23U 152 M 160 QU 1A1	25	45	0.1330	2.50
	1,500	23U 152 M 160 RS 1A1	30	35	0.1330	2.50
	1,500	23U 152 M 160 SR 1A1	35	30	0.1550	2.50
	1,800	23U 182 M 160 QV 1A1	25	50	0.1100	2.70
	1,800	23U 182 M 160 RT 1A1	30	40	0.1100	2.70
	1,800	23U 182 M 160 SR 1A1	35	30	0.1200	2.70
	2,200	23U 222 M 160 RU 1A1	30	45	0.0900	2.90
	2,200	23U 222 M 160 SS 1A1	35	35	0.0980	2.90
	2,700	23U 272 M 160 RV 1A1	30	50	0.0800	3.10
	2,700	23U 272 M 160 ST 1A1	35	40	0.0860	3.10
	3,300	23U 332 M 160 SV 1A1	35	50	0.0700	3.30

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
180	560	23U 561 M 180 PR 1A1	22	30	0.3550	1.50
	560	23U 561 M 180 QQ 1A1	25	25	0.3550	1.50
	680	23U 681 M 180 PS 1A1	22	35	0.2930	1.70
	680	23U 681 M 180 QR 1A1	25	30	0.2930	1.70
	820	23U 821 M 180 PT 1A1	22	40	0.2430	2.00
	820	23U 821 M 180 QR 1A1	25	30	0.2430	2.00
	820	23U 821 M 180 RQ 1A1	30	25	0.2430	2.00
	1,000	23U 102 M 180 PU 1A1	22	45	0.1990	2.20
	1,000	23U 102 M 180 QT 1A1	25	40	0.1990	2.20
	1,000	23U 102 M 180 RR 1A1	30	30	0.1990	2.20
	1,000	23U 102 M 180 SQ 1A1	35	25	0.2160	2.20
	1,200	23U 122 M 180 QU 1A1	25	45	0.1660	2.30
	1,200	23U 122 M 180 RS 1A1	30	35	0.1660	2.30
	1,500	23U 152 M 180 QV 1A1	25	50	0.1330	2.50
	1,500	23U 152 M 180 RT 1A1	30	40	0.1330	2.50
	1,500	23U 152 M 180 SR 1A1	35	30	0.1550	2.50
	1,800	23U 182 M 180 RU 1A1	30	45	0.1100	2.70
	1,800	23U 182 M 180 SS 1A1	35	35	0.1290	2.70
	2,200	23U 222 M 180 RV 1A1	30	50	0.0900	2.90
	2,200	23U 222 M 180 ST 1A1	35	40	0.0980	2.90
2,700	23U 272 M 180 SV 1A1	35	50	0.0860	3.10	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
200	390	23U 391 M 200 PQ 1A1	22	25	0.5100	1.31
	470	23U 471 M 200 PR 1A1	22	30	0.4230	1.45
	560	23U 561 M 200 PR 1A1	22	30	0.3550	1.67
	680	23U 681 M 200 PT 1A1	22	40	0.2930	1.75
	680	23U 681 M 200 QR 1A1	25	30	0.2930	1.75
	820	23U 821 M 200 PU 1A1	22	45	0.2430	2.04
	820	23U 821 M 200 QS 1A1	25	35	0.2430	2.04
	820	23U 821 M 200 RQ 1A1	30	25	0.2430	2.04
	1,000	23U 102 M 200 PV 1A1	22	50	0.1990	2.30
	1,000	23U 102 M 200 QU 1A1	25	45	0.1990	2.30
	1,000	23U 102 M 200 RR 1A1	30	30	0.1990	2.30
	1,000	23U 102 M 200 SQ 1A1	35	25	0.2160	2.30
	1,200	23U 122 M 200 QV 1A1	25	50	0.1660	2.65
	1,200	23U 122 M 200 RS 1A1	30	35	0.1660	2.65
	1,200	23U 122 M 200 SR 1A1	35	30	0.1800	2.65
	1,500	23U 152 M 200 RT 1A1	30	40	0.1330	2.80
	1,500	23U 152 M 200 SR 1A1	35	30	0.1140	2.80
	1,800	23U 182 M 200 RU 1A1	30	45	0.1100	3.08
	1,800	23U 182 M 200 ST 1A1	35	40	0.1290	3.08
	2,200	23U 222 M 200 RV 1A1	30	50	0.0900	3.48
2,200	23U 222 M 200 SU 1A1	35	45	0.0960	3.48	

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
250	270	23U 271 M 250 PQ 1A1	22	25	0.6140	1.10
	330	23U 331 M 250 PR 1A1	22	30	0.5020	1.20
	330	23U 331 M 250 QQ 1A1	25	25	0.5020	1.20
	390	23U 391 M 250 PS 1A1	22	35	0.4250	1.30
	390	23U 391 M 250 QQ 1A1	25	25	0.4250	1.30
	470	23U 471 M 250 PT 1A1	22	40	0.3530	1.40
	470	23U 471 M 250 QR 1A1	25	30	0.3530	1.40
	470	23U 471 M 250 RQ 1A1	30	25	0.3530	1.40
	560	23U 561 M 250 PU 1A1	22	45	0.2960	1.50
	560	23U 561 M 250 QS 1A1	25	35	0.2960	1.50
	560	23U 561 M 250 RQ 1A1	30	25	0.2960	1.50
	680	23U 681 M 250 PV 1A1	22	50	0.2440	1.70
	680	23U 681 M 250 QT 1A1	25	40	0.2440	1.70
	680	23U 681 M 250 RR 1A1	30	30	0.2440	1.70
	680	23U 681 M 250 SQ 1A1	35	25	0.2440	1.70
	820	23U 821 M 250 QU 1A1	25	45	0.2020	2.00
	820	23U 821 M 250 RS 1A1	30	35	0.2020	2.00
	820	23U 821 M 250 SR 1A1	35	30	0.2020	2.00
	1,000	23U 102 M 250 RT 1A1	30	40	0.1660	2.20
	1,200	23U 122 M 250 RU 1A1	30	45	0.1380	2.30
1,500	23U 152 M 250 SU 1A1	35	45	0.1100	2.50	
1,800	23U 182 M 250 SV 1A1	35	50	0.0920	2.70	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
315	150	23U 151 M 315 PQ 1A1	22	25	1.1050	0.82
	180	23U 181 M 315 PR 1A1	22	30	0.9210	0.90
	220	23U 221 M 315 PR 1A1	22	30	0.7540	1.00
	270	23U 271 M 315 QR 1A1	25	30	0.6140	1.10
	330	23U 331 M 315 PU 1A1	22	45	0.5020	1.20
	330	23U 331 M 315 QS 1A1	25	35	0.5020	1.20
	330	23U 331 M 315 RQ 1A1	30	25	0.5020	1.20
	390	23U 391 M 315 QT 1A1	25	40	0.4250	1.30
	390	23U 391 M 315 RR 1A1	30	30	0.4250	1.30
	390	23U 391 M 315 SQ 1A1	35	25	0.4250	1.30
	470	23U 471 M 315 QU 1A1	25	45	0.3530	1.40
	470	23U 471 M 315 RS 1A1	30	35	0.3530	1.40
	560	23U 561 M 315 QV 1A1	25	50	0.2960	1.50
	560	23U 561 M 315 RT 1A1	30	40	0.2960	1.50
	560	23U 561 M 315 SR 1A1	35	30	0.2960	1.50
	680	23U 681 M 315 RU 1A1	30	45	0.2440	1.70
	680	23U 681 M 315 SS 1A1	35	35	0.2440	1.70
	820	23U 821 M 315 RV 1A1	30	50	0.2020	2.00
	820	23U 821 M 315 ST 1A1	35	40	0.2020	2.00
	1,000	23U 102 M 315 SU 1A1	35	45	0.1660	2.30

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
350	120	23U 121 M 350 PQ 1A1	22	25	1.3820	0.75
	150	23U 151 M 350 PR 1A1	22	30	1.1050	0.82
	180	23U 181 M 350 PR 1A1	22	30	0.9210	0.90
	180	23U 181 M 350 QQ 1A1	25	25	0.9210	0.90
	220	23U 221 M 350 PS 1A1	22	35	0.7540	1.00
	220	23U 221 M 350 QR 1A1	25	30	0.7540	1.00
	270	23U 271 M 350 QS 1A1	25	35	0.6140	1.10
	270	23U 271 M 350 RQ 1A1	30	25	0.6140	1.10
	330	23U 331 M 350 QT 1A1	25	40	0.5020	1.20
	330	23U 331 M 350 RR 1A1	30	30	0.5020	1.20
	390	23U 391 M 350 QU 1A1	25	45	0.4250	1.30
	390	23U 391 M 350 RS 1A1	30	35	0.4250	1.30
	470	23U 471 M 350 QV 1A1	25	50	0.3530	1.40
	470	23U 471 M 350 SR 1A1	35	30	0.3530	1.40
	560	23U 561 M 350 RU 1A1	30	45	0.2960	1.50
	560	23U 561 M 350 SS 1A1	35	35	0.2960	1.50
	680	23U 681 M 350 RV 1A1	30	50	0.2440	1.70
680	23U 681 M 350 ST 1A1	35	40	0.2440	1.70	
820	23U 821 M 350 SU 1A1	35	45	0.2020	1.90	

Voltage (WVDC)	Capacitance (µF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
400	100	23U 101 M 400 PQ 1A1	22	25	1.8240	0.70
	120	23U 121 M 400 PR 1A1	22	30	1.5200	0.75
	150	23U 151 M 400 PR 1A1	22	30	1.2160	0.88
	180	23U 181 M 400 PS 1A1	22	35	1.0130	0.95
	180	23U 181 M 400 QR 1A1	25	30	1.0130	0.95
	220	23U 221 M 400 PU 1A1	22	45	0.8290	1.10
	220	23U 221 M 400 QS 1A1	25	35	0.8290	1.10
	220	23U 221 M 400 RQ 1A1	30	25	0.8290	1.10
	270	23U 271 M 400 PV 1A1	22	50	0.6750	1.22
	270	23U 271 M 400 QT 1A1	25	40	0.6750	1.22
	270	23U 271 M 400 RR 1A1	30	30	0.6750	1.22
	270	23U 271 M 400 SQ 1A1	35	25	0.6750	1.22
	330	23U 331 M 400 QU 1A1	25	45	0.5530	1.44
	330	23U 331 M 400 RS 1A1	30	35	0.5530	1.44
	330	23U 331 M 400 SR 1A1	35	30	0.5530	1.44
	390	23U 391 M 400 QV 1A1	25	50	0.4680	1.55
	390	23U 391 M 400 RT 1A1	30	40	0.4680	1.55
	390	23U 391 M 400 SR 1A1	35	30	0.4680	1.55
	470	23U 471 M 400 RU 1A1	30	45	0.3880	1.68
	470	23U 471 M 400 SS 1A1	35	35	0.3880	1.68
	560	23U 561 M 400 RV 1A1	30	50	0.3260	1.90
560	23U 561 M 400 ST 1A1	35	40	0.3260	1.90	
680	23U 681 M 400 SU 1A1	35	45	0.2680	2.12	

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Snap-In Electrolytic Capacitors

23U Series – High Ripple Product Line (105°C)

Voltage (WVDC)	Capacitance (μF)	Catalog Number	Base Size (mm)	Height C (mm)	Max ESR 120 Hz@25°C	Max Ripple 120 Hz@105°C
450	100	23U 101 M 450 PR 1A1	22	30	1.8240	0.64
	100	23U 101 M 450 QQ 1A1	25	25	1.8240	0.64
	120	23U 121 M 450 PS 1A1	22	35	1.5200	0.72
	120	23U 121 M 450 QR 1A1	25	30	1.5200	0.72
	150	23U 151 M 450 PT 1A1	22	40	1.2160	0.79
	150	23U 151 M 450 QR 1A1	25	30	1.2160	0.79
	150	23U 151 M 450 RQ 1A1	30	25	1.2160	0.79
	180	23U 181 M 450 PU 1A1	22	45	1.0130	0.87
	180	23U 181 M 450 QT 1A1	25	40	1.0130	0.87
	180	23U 181 M 450 RR 1A1	30	30	1.0130	0.87
	220	23U 221 M 450 QU 1A1	25	45	0.8290	1.00
	220	23U 221 M 450 RR 1A1	30	30	0.8290	1.00
	220	23U 221 M 450 SQ 1A1	35	25	0.8290	1.00
	270	23U 271 M 450 QV 1A1	25	50	0.6750	1.19
	270	23U 271 M 450 RT 1A1	30	40	0.6750	1.19
	270	23U 271 M 450 SR 1A1	35	30	0.6750	1.19
	330	23U 331 M 450 RU 1A1	30	45	0.5530	1.38
	330	23U 331 M 450 SS 1A1	35	35	0.5530	1.38
	390	23U 391 M 450 ST 1A1	35	40	0.4680	1.55
	470	23U 471 M 450 SU 1A1	35	45	0.3880	1.74
560	23U 561 M 450 SV 1A1	35	50	0.3260	1.90	
390	23U 391 M 450 RV 1A1	30	50	0.6800	1.55	
390	23U 391 M 450 ST 1A1	35	40	0.4680	1.55	
470	23U 471 M 450 SU 1A1	35	45	0.3880	1.74	
560	23U 561 M 450 SV 1A1	35	50	0.3260	1.90	

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