

**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



Series	Type	Capacitance Range (uF)	WVDC Range	Temperature Range (°C)	Life Test @+85°C	Standard Terminals
23T	High Temperature	33 to 120,000	10 to 450	-40 to +105	3,000	2 PIN
23U	High Ripple	100 to 100,000	10 to 450	-40 to +105	2,000	2 PIN
23V	High Capacitance	COMING SOON!		-40 to +85	2,000	2 PIN
23W	Long Life	COMING SOON!		-40 to +85	3,000	2 PIN

All product supplied with 4 Mil. PVC Sleeve , as standard.

(A) 2 PIN Terminals, as standard



# Snap-In Electrolytic Capacitors

## 23T Series – High temperature Product Line (105°C)

### HIGH TEMPERATURE PRODUCT LINE:

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

### GENERAL SPECIFICATIONS:

Capacitance Range:	33 to 120,000 $\mu$ F
Voltage Range:	10 to 450 WVDC
Capacitance Tolerance:	$\pm$ 20% Standard
Operating Temperature:	-40°C to +105°C
Life @ 105°C:	3,000 Hrs.
Terminals:	2 PIN
	(Other terminal configurations available)

### RIPPLE CURRENT APPLICATION GUIDELINES:

	RIPPLE CURRENT FREQUENCY MULTIPLIERS					
	5 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	4,700	23T 472 M 010 PQ 1A1	22	25	0.1590	0.85
	6,800	23T 682 M 010 PQ 1A1	22	25	0.1110	1.30
	10,000	23T 103 M 010 PQ 1A1	22	25	0.0750	1.80
	12,000	23T 123 M 010 PR 1A1	22	30	0.0610	2.20
	15,000	23T 153 M 010 PS 1A1	22	35	0.0550	2.30
	15,000	23T 153 M 010 QQ 1A1	25	25	0.0550	2.30
	18,000	23T 183 M 010 PT 1A1	22	40	0.0440	2.40
	18,000	23T 183 M 010 QR 1A1	25	30	0.0440	2.40
	22,000	23T 223 M 010 PU 1A1	22	45	0.0400	2.60
	22,000	23T 223 M 010 QS 1A1	25	35	0.0400	2.60
	22,000	23T 223 M 010 RQ 1A1	30	25	0.0400	2.60
	27,000	23T 273 M 010 PV 1A1	22	50	0.0330	3.10
	27,000	23T 273 M 010 QT 1A1	25	40	0.0330	3.10
	27,000	23T 273 M 010 RR 1A1	30	30	0.0330	3.10
	27,000	23T 273 M 010 SQ 1A1	35	25	0.0330	3.10
	33,000	23T 333 M 010 QU 1A1	25	45	0.0300	3.40
	33,000	23T 333 M 010 RS 1A1	30	35	0.0300	3.40
	33,000	23T 333 M 010 SR 1A1	35	30	0.0300	3.40
	39,000	23T 393 M 010 QV 1A1	25	50	0.0250	3.70
	39,000	23T 393 M 010 RT 1A1	30	40	0.0250	3.70
	39,000	23T 393 M 010 SR 1A1	35	30	0.0250	3.70
	47,000	23T 473 M 010 RU 1A1	30	45	0.0230	4.20
	47,000	23T 473 M 010 SS 1A1	35	35	0.0230	4.20
	56,000	23T 563 M 010 RV 1A1	30	50	0.0220	5.00
	56,000	23T 563 M 010 ST 1A1	35	40	0.0220	5.00
	68,000	23T 683 M 010 SV 1A1	35	50	0.0210	5.50
	82,000	23T 823 M 010 SX 1A1	35	63	0.0130	6.30
100,000	23T 104 M 010 SY 1A1	35	70	0.0110	7.30	
120,000	23T 124 M 010 SZ 1A1	35	80	0.0100	8.20	

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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
16	3,300	23T 332 M 016 PO 1A1	22	20	0.2160	1.30
	3,300	23T 332 M 016 PQ 1A1	22	25	0.1760	1.30
	4,700	23T 472 M 016 PQ 1A1	22	25	0.1230	1.52
	4,700	23T 472 M 016 QO 1A1	25	20	0.1500	1.60
	6,800	23T 682 M 016 PQ 1A1	22	25	0.0880	2.20
	6,800	23T 682 M 016 RO 1A1	30	20	0.1050	1.80
	8,200	23T 822 M 016 PR 1A1	22	30	0.0700	2.40
	10,000	23T 103 M 016 PR 1A1	22	30	0.0700	2.60
	10,000	23T 103 M 016 QQ 1A1	25	25	0.0700	2.60
	10,000	23T 103 M 016 SO 1A1	35	20	0.0700	2.40
	12,000	23T 123 M 016 PS 1A1	22	35	0.0550	2.90
	12,000	23T 123 M 016 QR 1A1	25	30	0.0550	2.90
	12,000	23T 123 M 016 RQ 1A1	30	25	0.0550	2.90
	15,000	23T 153 M 016 PT 1A1	22	40	0.0460	3.20
	15,000	23T 153 M 016 QS 1A1	25	35	0.0460	3.20
	15,000	23T 153 M 016 RR 1A1	30	30	0.0460	3.20
	18,000	23T 183 M 016 PU 1A1	22	45	0.0400	3.50
	18,000	23T 183 M 016 QT 1A1	25	40	0.0400	3.50
	18,000	23T 183 M 016 RR 1A1	30	30	0.0400	3.50
	18,000	23T 183 M 016 SQ 1A1	35	25	0.0400	3.50
	22,000	23T 223 M 016 RS 1A1	30	35	0.0330	3.80
	22,000	23T 223 M 016 SR 1A1	35	30	0.0330	3.80
	27,000	23T 273 M 016 QV 1A1	25	50	0.0300	4.20
	27,000	23T 273 M 016 RT 1A1	30	40	0.0300	4.20
	27,000	23T 273 M 016 SR 1A1	35	30	0.0300	4.20
	33,000	23T 333 M 016 RU 1A1	30	45	0.0230	4.70
	33,000	23T 333 M 016 SS 1A1	35	35	0.0230	4.70
	39,000	23T 393 M 016 RV 1A1	30	50	0.0220	5.10
	39,000	23T 393 M 016 ST 1A1	35	40	0.0220	5.10
	47,000	23T 473 M 016 SU 1A1	35	45	0.0200	5.50
	56,000	23T 563 M 016 SV 1A1	35	50	0.0190	6.00
	68,000	23T 683 M 016 SX 1A1	35	63	0.0170	6.60
	68,000	23T 683 M 016 SY 1A1	35	70	0.0120	7.10
82,000	23T 823 M 016 SZ 1A1	35	80	0.0100	8.00	
100,000	23T 104 M 016 SZ 1A1	35	80	0.0150	8.00	

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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	2,200	23T 222 M 025 PO 1A1	22	20	0.2400	1.30
	2,200	23T 222 M 025 PQ 1A1	22	25	0.2400	1.30
	3,300	23T 332 M 025 PQ 1A1	22	25	0.1600	1.60
	3,300	23T 332 M 025 QO 1A1	25	20	0.1600	1.60
	4,700	23T 472 M 025 PQ 1A1	22	25	0.1050	2.00
	4,700	23T 472 M 025 RO 1A1	30	20	0.1100	1.80
	5,600	23T 562 M 025 PR 1A1	22	30	0.0900	2.20
	6,800	23T 682 M 025 PR 1A1	22	30	0.0700	2.40
	6,800	23T 682 M 025 QQ 1A1	25	25	0.0700	2.40
	6,800	23T 682 M 025 SO 1A1	35	20	0.0800	2.30
	8,200	23T 822 M 025 PS 1A1	22	35	0.0600	2.70
	8,200	23T 822 M 025 QR 1A1	25	30	0.0600	2.70
	8,200	23T 822 M 025 RQ 1A1	30	25	0.0600	2.70
	10,000	23T 103 M 025 PT 1A1	22	40	0.0500	3.00
	10,000	23T 103 M 025 QS 1A1	25	35	0.0500	3.00
	10,000	23T 103 M 025 RR 1A1	30	30	0.0500	3.00
	12,000	23T 123 M 025 PU 1A1	22	45	0.0440	3.20
	12,000	23T 123 M 025 QT 1A1	25	40	0.0440	3.20
	12,000	23T 123 M 025 RR 1A1	30	30	0.0440	3.20
	12,000	23T 123 M 025 SQ 1A1	35	25	0.0440	3.20
	15,000	23T 153 M 025 QU 1A1	25	45	0.0360	3.60
	15,000	23T 153 M 025 RS 1A1	30	35	0.0360	3.60
	15,000	23T 153 M 025 SR 1A1	35	30	0.0360	3.60
	18,000	23T 183 M 025 QV 1A1	25	50	0.0300	3.90
	18,000	23T 183 M 025 RT 1A1	30	40	0.0300	3.90
	18,000	23T 183 M 025 SS 1A1	35	35	0.0300	3.90
	22,000	23T 223 M 025 RU 1A1	30	45	0.0250	4.30
	27,000	23T 273 M 025 SU 1A1	35	45	0.0210	4.80
	33,000	23T 333 M 025 SV 1A1	35	50	0.0180	5.50
	39,000	23T 393 M 025 SX 1A1	35	63	0.0140	6.10
47,000	23T 473 M 025 SX 1A1	35	63	0.0170	6.50	
47,000	23T 473 M 025 SY 1A1	35	70	0.0120	7.10	
56,000	23T 563 M 025 SZ 1A1	35	80	0.0100	7.90	

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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
35	1,500	23T 152 M 035 PO 1A1	22	20	0.2870	1.10
	1,500	23T 152 M 035 PQ 1A1	22	25	0.2870	1.10
	2,200	23T 222 M 035 PQ 1A1	22	25	0.2000	1.40
	2,200	23T 222 M 035 QO 1A1	25	20	0.2000	1.40
	3,300	23T 332 M 035 PQ 1A1	22	25	0.1210	1.90
	3,300	23T 332 M 035 RO 1A1	30	20	0.1300	1.70
	3,900	23T 392 M 035 PR 1A1	22	30	0.1100	2.00
	4,700	23T 472 M 035 PS 1A1	22	35	0.0900	2.20
	4,700	23T 472 M 035 QQ 1A1	25	25	0.0900	2.20
	4,700	23T 472 M 035 SO 1A1	35	20	0.0950	2.00
	5,600	23T 562 M 035 PS 1A1	22	35	0.0710	2.40
	5,600	23T 562 M 035 QR 1A1	25	30	0.0710	2.40
	5,600	23T 562 M 035 RQ 1A1	30	25	0.0710	2.40
	6,800	23T 682 M 035 PT 1A1	22	40	0.0590	2.60
	6,800	23T 682 M 035 QS 1A1	25	35	0.0590	2.60
	6,800	23T 682 M 035 RR 1A1	30	30	0.0590	2.60
	8,200	23T 822 M 035 PV 1A1	22	50	0.0490	2.90
	8,200	23T 822 M 035 QT 1A1	25	40	0.0490	2.90
	8,200	23T 822 M 035 RR 1A1	30	30	0.0490	2.90
	8,200	23T 822 M 035 SQ 1A1	35	25	0.0490	2.90
	10,000	23T 103 M 035 QU 1A1	25	45	0.0400	3.20
	10,000	23T 103 M 035 RS 1A1	30	35	0.0400	3.20
	10,000	23T 103 M 035 SR 1A1	35	30	0.0400	3.20
	12,000	23T 123 M 035 QV 1A1	25	50	0.0330	3.50
	12,000	23T 123 M 035 RT 1A1	30	40	0.0330	3.50
	12,000	23T 123 M 035 SR 1A1	35	30	0.0330	3.50
	15,000	23T 153 M 035 RU 1A1	30	45	0.0300	3.90
	15,000	23T 153 M 035 SS 1A1	35	35	0.0300	3.90
	18,000	23T 183 M 035 ST 1A1	35	40	0.0300	4.30
	22,000	23T 223 M 035 SV 1A1	35	50	0.0230	5.00
	27,000	23T 273 M 035 SX 1A1	35	63	0.0250	5.50
	33,000	23T 333 M 035 SY 1A1	35	70	0.0140	6.40
	39,000	23T 393 M 035 SZ 1A1	35	80	0.0190	6.50

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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
50	1,000	23T 102 M 050 PO 1A1	22	20	0.2600	0.90
	1,000	23T 102 M 050 PQ 1A1	22	25	0.2300	0.90
	1,500	23T 152 M 050 PQ 1A1	22	25	0.1550	1.25
	1,500	23T 152 M 050 QO 1A1	25	20	0.1770	1.20
	1,800	23T 182 M 050 PQ 1A1	22	25	0.1290	1.50
	2,200	23T 222 M 050 PR 1A1	22	30	0.1050	1.70
	2,200	23T 222 M 050 RO 1A1	30	20	0.1210	1.40
	2,700	23T 272 M 050 PR 1A1	22	30	0.0860	1.80
	2,700	23T 272 M 050 QQ 1A1	25	25	0.0860	1.80
	3,300	23T 332 M 050 PS 1A1	22	35	0.0700	2.00
	3,300	23T 332 M 050 QR 1A1	25	30	0.0700	2.00
	3,300	23T 332 M 050 SO 1A1	35	20	0.0850	1.70
	3,900	23T 392 M 050 PT 1A1	22	40	0.0650	2.20
	3,900	23T 392 M 050 QS 1A1	25	35	0.0650	2.20
	3,900	23T 392 M 050 RQ 1A1	30	25	0.0650	2.20
	4,700	23T 472 M 050 PU 1A1	22	45	0.0530	2.50
	4,700	23T 472 M 050 QT 1A1	25	40	0.0530	2.50
	4,700	23T 472 M 050 RR 1A1	30	30	0.0530	2.50
	4,700	23T 472 M 050 SQ 1A1	35	25	0.0530	2.50
	5,600	23T 562 M 050 PV 1A1	22	50	0.0500	2.80
	5,600	23T 562 M 050 QT 1A1	25	40	0.0500	2.80
	5,600	23T 562 M 050 RS 1A1	30	35	0.0500	2.80
	5,600	23T 562 M 050 SR 1A1	35	30	0.0500	2.80
	6,800	23T 682 M 050 QV 1A1	25	50	0.0460	3.30
	6,800	23T 682 M 050 RT 1A1	30	40	0.0460	3.30
	6,800	23T 682 M 050 SR 1A1	35	30	0.0460	3.30
	8,200	23T 822 M 050 RU 1A1	30	45	0.0400	3.60
	8,200	23T 822 M 050 SS 1A1	35	35	0.0400	3.60
	10,000	23T 103 M 050 RV 1A1	30	50	0.0330	4.00
	10,000	23T 103 M 050 ST 1A1	35	40	0.0330	4.00
	12,000	23T 123 M 050 SU 1A1	35	45	0.0280	4.50
	15,000	23T 153 M 050 SV 1A1	35	50	0.0220	4.80
15,000	23T 153 M 050 SX 1A1	35	63	0.0200	5.10	
18,000	23T 183 M 050 SY 1A1	35	70	0.0170	5.90	
18,000	23T 183 M 050 SX 1A1	35	63	0.0280	5.30	
22,000	23T 223 M 050 SZ 1A1	35	80	0.0140	6.70	
27,000	23T 273 M 050 SZ 1A1	35	80	0.0150	6.20	

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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
63	680	23T 681 M 063 PO 1A1	22	20	0.4630	0.90
	680	23T 681 M 063 PQ 1A1	22	25	0.4100	0.90
	1,000	23T 102 M 063 PQ 1A1	22	25	0.2800	1.18
	1,000	23T 102 M 063 QO 1A1	25	20	0.3150	1.20
	1,200	23T 122 M 063 PQ 1A1	22	25	0.2350	1.40
	1,500	23T 152 M 063 PR 1A1	22	30	0.1900	1.50
	1,500	23T 152 M 063 RO 1A1	30	20	0.2100	1.30
	1,800	23T 182 M 063 PR 1A1	22	30	0.1570	1.70
	1,800	23T 182 M 063 QQ 1A1	25	25	0.1570	1.70
	2,200	23T 222 M 063 PS 1A1	22	35	0.1300	2.00
	2,200	23T 222 M 063 QR 1A1	25	30	0.1300	2.00
	2,200	23T 222 M 063 SO 1A1	35	20	0.1430	1.50
	2,700	23T 272 M 063 PT 1A1	22	40	0.1050	2.20
	2,700	23T 272 M 063 QS 1A1	25	35	0.1050	2.20
	2,700	23T 272 M 063 RQ 1A1	30	25	0.1050	2.20
	3,300	23T 332 M 063 PV 1A1	22	50	0.0900	2.50
	3,300	23T 332 M 063 QT 1A1	25	40	0.0900	2.50
	3,300	23T 332 M 063 RR 1A1	30	30	0.0900	2.50
	3,300	23T 332 M 063 SQ 1A1	35	25	0.0900	2.50
	3,900	23T 392 M 063 QU 1A1	25	45	0.0800	2.70
	3,900	23T 392 M 063 RS 1A1	30	35	0.0800	2.70
	3,900	23T 392 M 063 SR 1A1	35	30	0.0800	2.70
	4,700	23T 472 M 063 QV 1A1	25	50	0.0630	3.00
	4,700	23T 472 M 063 RT 1A1	30	40	0.0630	3.00
	4,700	23T 472 M 063 SR 1A1	35	30	0.0630	3.00
	5,600	23T 562 M 063 RU 1A1	30	45	0.0550	3.30
	5,600	23T 562 M 063 SS 1A1	35	35	0.0550	3.30
	6,800	23T 682 M 063 RV 1A1	30	50	0.0500	3.60
	6,800	23T 682 M 063 ST 1A1	35	40	0.0500	3.60
	8,200	23T 822 M 063 SU 1A1	35	45	0.0400	3.90
	10,000	23T 103 M 063 SV 1A1	35	50	0.0330	4.40
	12,000	23T 123 M 063 SV 1A1	35	50	0.0300	4.40
	12,000	23T 123 M 063 SX 1A1	35	63	0.0290	4.20
15,000	23T 153 M 063 SX 1A1	35	63	0.0240	4.90	
18,000	23T 183 M 063 SZ 1A1	35	80	0.0220	5.80	

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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	470	23T 471 M 080 PO 1A1	22	20	0.4600	0.80
	470	23T 471 M 080 PQ 1A1	22	25	0.3900	0.80
	680	23T 681 M 080 PQ 1A1	22	25	0.2700	1.00
	680	23T 681 M 080 QO 1A1	25	20	0.3170	1.00
	820	23T 821 M 080 PQ 1A1	22	25	0.2220	1.20
	1,000	23T 102 M 080 PR 1A1	22	30	0.1820	1.30
	1,000	23T 102 M 080 QQ 1A1	25	25	0.1820	1.30
	1,000	23T 102 M 080 RO 1A1	30	20	0.2200	1.20
	1,200	23T 122 M 080 PR 1A1	22	30	0.1700	1.50
	1,200	23T 122 M 080 QQ 1A1	25	25	0.1700	1.50
	1,500	23T 152 M 080 PS 1A1	22	35	0.1330	1.70
	1,500	23T 152 M 080 QR 1A1	25	30	0.1330	1.70
	1,500	23T 152 M 080 SO 1A1	35	20	0.1550	1.40
	1,800	23T 182 M 080 PT 1A1	22	40	0.1110	1.80
	1,800	23T 182 M 080 QS 1A1	25	35	0.1110	1.80
	1,800	23T 182 M 080 RQ 1A1	30	25	0.1110	1.80
	2,200	23T 222 M 080 PU 1A1	22	45	0.0900	2.10
	2,200	23T 222 M 080 QS 1A1	25	35	0.0900	2.10
	2,200	23T 222 M 080 RR 1A1	30	30	0.0900	2.10
	2,200	23T 222 M 080 SQ 1A1	35	25	0.0900	2.10
	2,700	23T 272 M 080 QU 1A1	25	45	0.0740	2.40
	2,700	23T 272 M 080 RS 1A1	30	35	0.0740	2.40
	2,700	23T 272 M 080 SR 1A1	35	30	0.0740	2.40
	3,300	23T 332 M 080 QV 1A1	25	50	0.0650	2.60
	3,300	23T 332 M 080 RT 1A1	30	40	0.0650	2.60
	3,300	23T 332 M 080 SR 1A1	35	30	0.0650	2.60
	3,900	23T 392 M 080 RU 1A1	30	45	0.0600	3.00
	3,900	23T 392 M 080 SS 1A1	35	35	0.0600	3.00
	4,700	23T 472 M 080 RV 1A1	30	50	0.0480	3.30
	4,700	23T 472 M 080 ST 1A1	35	40	0.0480	3.30
	5,600	23T 562 M 080 SU 1A1	35	45	0.0500	3.70
	6,800	23T 682 M 080 SV 1A1	35	50	0.0410	3.90
	8,200	23T 822 M 080 SX 1A1	35	63	0.0240	4.60
10,000	23T 103 M 080 SY 1A1	35	70	0.0200	5.40	
12,000	23T 123 M 080 SZ 1A1	35	80	0.0170	6.10	

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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	330	23T 331 M 100 PO 1A1	22	20	0.6530	0.80
	330	23T 331 M 100 PQ 1A1	22	25	0.5500	0.80
	470	23T 471 M 100 PQ 1A1	22	25	0.3900	0.92
	470	23T 471 M 100 QO 1A1	25	20	0.4600	1.00
	560	23T 561 M 100 PQ 1A1	22	25	0.3000	1.10
	680	23T 681 M 100 RO 1A1	30	20	0.3170	1.10
	820	23T 821 M 100 PR 1A1	22	30	0.2020	1.40
	820	23T 821 M 100 QQ 1A1	25	25	0.2020	1.40
	1,000	23T 102 M 100 PS 1A1	22	35	0.1820	1.70
	1,000	23T 102 M 100 QR 1A1	25	30	0.1820	1.70
	1,000	23T 102 M 100 SO 1A1	35	20	0.2160	1.20
	1,200	23T 122 M 100 PT 1A1	22	40	0.1520	1.80
	1,200	23T 122 M 100 QS 1A1	25	35	0.1520	1.80
	1,200	23T 122 M 100 RQ 1A1	30	25	0.1520	1.80
	1,500	23T 152 M 100 PU 1A1	22	45	0.1220	2.10
	1,500	23T 152 M 100 QT 1A1	25	40	0.1220	2.10
	1,500	23T 152 M 100 RR 1A1	30	30	0.1220	2.10
	1,500	23T 152 M 100 SQ 1A1	35	25	0.1220	2.10
	1,800	23T 182 M 100 QU 1A1	25	45	0.1110	2.30
	1,800	23T 182 M 100 RS 1A1	30	35	0.1110	2.30
	1,800	23T 182 M 100 SR 1A1	35	30	0.1110	2.30
	2,200	23T 22 M 100 QV 1A1	25	50	0.0900	2.60
	2,200	23T 22 M 100 RT 1A1	30	40	0.0900	2.60
	2,200	23T 22 M 100 SR 1A1	35	30	0.0900	2.60
	2,700	23T 272 M 100 RU 1A1	30	45	0.0800	2.90
	2,700	23T 272 M 100 SS 1A1	35	35	0.0800	2.90
	3,300	23T 332 M 100 RV 1A1	30	50	0.0750	3.20
	3,300	23T 332 M 100 ST 1A1	35	40	0.0750	3.20
	3,900	23T 392 M 100 SU 1A1	35	45	0.0640	3.60
	4,700	23T 472 M 100 SV 1A1	35	50	0.0530	3.80
	4,700	23T 472 M 100 SX 1A1	35	63	0.0320	4.00
	5,600	23T 562 M 100 SX 1A1	35	63	0.0440	4.10
5,600	23T 562 M 100 SY 1A1	35	70	0.0270	4.70	
6,800	23T 682 M 100 SZ 1A1	35	80	0.0230	5.30	
8,200	23T 822 M 100 SZ 1A1	35	80	0.0300	5.15	

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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
160	150	23T 151 M 160 PO 1A1	22	20	1.4370	0.55
	150	23T 151 M 160 PQ 1A1	22	25	1.2200	0.60
	220	23T 221 M 160 PQ 1A1	22	25	0.8300	0.90
	220	23T 221 M 160 QO 1A1	25	20	0.9800	0.80
	270	23T 271 M 160 PQ 1A1	22	25	0.6750	1.10
	330	23T 331 M 160 RO 1A1	30	20	0.5530	1.00
	390	23T 391 M 160 PR 1A1	22	30	0.5530	1.30
	390	23T 391 M 160 QQ 1A1	25	25	0.5530	1.30
	470	23T 471 M 160 PR 1A1	22	30	0.4230	1.40
	470	23T 471 M 160 SO 1A1	35	20	0.4590	1.10
	560	23T 561 M 160 PS 1A1	22	35	0.3550	1.50
	560	23T 561 M 160 QR 1A1	25	30	0.3850	1.50
	560	23T 561 M 160 RQ 1A1	30	25	0.3850	1.50
	680	23T 681 M 160 PT 1A1	22	40	0.2930	1.70
	680	23T 681 M 160 QR 1A1	25	30	0.2930	1.70
	820	23T 821 M 160 PU 1A1	22	45	0.2430	2.00
	820	23T 821 M 160 QS 1A1	25	35	0.2430	2.00
	820	23T 821 M 160 RR 1A1	30	30	0.2630	2.00
	1,000	23T 102 M 160 PV 1A1	22	50	0.1990	2.20
	1,000	23T 102 M 160 QT 1A1	25	40	0.1990	2.20
	1,000	23T 102 M 160 RR 1A1	30	30	0.1990	2.20
	1,000	23T 102 M 160 SQ 1A1	35	25	0.1990	2.20
	1,200	23T 122 M 160 QU 1A1	25	45	0.1800	2.30
	1,200	23T 122 M 160 RS 1A1	30	35	0.1800	2.30
	1,200	23T 122 M 160 SR 1A1	35	30	0.1800	2.30
	1,500	23T 152 M 160 RT 1A1	30	40	0.1440	2.50
	1,500	23T 152 M 160 SR 1A1	35	30	0.1440	2.50
	1,800	23T 182 M 160 RU 1A1	30	45	0.1290	2.70
	1,800	23T 182 M 160 SS 1A1	35	35	0.1290	2.70
	2,200	23T 222 M 160 SU 1A1	35	45	0.1050	2.90
	2,200	23T 222 M 160 SX 1A1	35	63	0.0500	3.30
	2,700	23T 272 M 160 SV 1A1	35	50	0.0860	3.10
2,700	23T 272 M 160 SY 1A1	35	70	0.0430	3.80	
3,300	23T 332 M 160 SZ 1A1	35	80	0.0370	3.80	

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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	220	23T 221 M 180 PQ 1A1	22	25	0.9040	1.00
	270	23T 271 M 180 PQ 1A1	22	25	0.7370	1.10
	330	23T 331 M 180 PR 1A1	22	30	0.6030	1.20
	330	23T 331 M 180 QQ 1A1	25	25	0.6030	1.20
	390	23T 391 M 180 PR 1A1	22	30	0.5100	1.30
	390	23T 391 M 180 QQ 1A1	25	25	0.5100	1.30
	470	23T 471 M 180 PS 1A1	22	35	0.4230	1.40
	470	23T 471 M 180 QR 1A1	25	30	0.4230	1.40
	470	23T 471 M 180 RQ 1A1	30	25	0.4230	1.40
	560	23T 561 M 180 PT 1A1	22	40	0.3550	1.50
	560	23T 561 M 180 QR 1A1	25	30	0.3550	1.50
	560	23T 561 M 180 QS 1A1	25	35	0.3550	1.50
	560	23T 561 M 180 RQ 1A1	30	25	0.3550	1.50
	680	23T 681 M 180 PU 1A1	22	45	0.2930	1.70
	680	23T 681 M 180 PV 1A1	22	50	0.2930	1.70
	680	23T 681 M 180 QS 1A1	25	35	0.2930	1.70
	680	23T 681 M 180 QT 1A1	25	40	0.2930	1.70
	680	23T 681 M 180 RR 1A1	30	30	0.2930	1.70
	820	23T 821 M 180 PV 1A1	22	50	0.2430	2.00
	820	23T 821 M 180 QT 1A1	25	40	0.2430	2.00
	820	23T 821 M 180 RR 1A1	30	30	0.2430	2.00
	820	23T 821 M 180 RS 1A1	30	35	0.2430	2.00
	1,000	23T 102 M 180 QU 1A1	25	45	0.1990	2.20
	1,000	23T 102 M 180 RS 1A1	30	35	0.1990	2.20
	1,000	23T 102 M 180 RT 1A1	30	40	0.1990	2.20
	1,000	23T 102 M 180 SR 1A1	35	30	0.1990	2.20
	1,200	23T 122 M 180 QV 1A1	25	50	0.1660	2.30
	1,200	23T 122 M 180 RT 1A1	30	40	0.1660	2.30
	1,200	23T 122 M 180 RU 1A1	30	45	0.1660	2.30
	1,200	23T 122 M 180 SR 1A1	35	30	0.1660	2.30
	1,500	23T 152 M 180 RU 1A1	30	45	0.1330	2.50
	1,500	23T 152 M 180 RV 1A1	30	50	0.1330	2.50
	1,500	23T 152 M 180 SS 1A1	35	35	0.1330	2.50
1,500	23T 152 M 180 ST 1A1	35	40	0.1330	2.50	
1,800	23T 182 M 180 SX 1A1	35	63	0.0550	3.20	
1,800	23T 182 M 180 SU 1A1	35	45	0.1110	2.70	
2,200	23T 222 M 180 SY 1A1	35	70	0.0460	3.70	
2,200	23T 222 M 180 SV 1A1	35	50	0.0900	2.90	
2,700	23T 272 M 180 SZ 1A1	35	80	0.0390	4.30	

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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
200	100	23T 101 M 200 PO 1A1	22	20	1.9890	0.50
	100	23T 101 M 200 PQ 1A1	22	25	1.6600	0.50
	150	23T 151 M 200 PQ 1A1	22	25	1.1000	0.70
	150	23T 151 M 200 QO 1A1	25	20	1.3260	0.70
	220	23T 221 M 200 PQ 1A1	22	25	0.7540	1.00
	220	23T 221 M 200 RO 1A1	30	20	0.9040	0.90
	270	23T 271 M 200 PR 1A1	22	30	0.6140	1.10
	270	23T 271 M 200 QQ 1A1	25	25	0.6140	1.10
	330	23T 331 M 200 PR 1A1	22	30	0.6030	1.20
	330	23T 331 M 200 QQ 1A1	25	25	0.6030	1.20
	330	23T 331 M 200 SO 1A1	35	20	0.6030	1.10
	390	23T 391 M 200 PR 1A1	22	30	0.5100	1.30
	390	23T 391 M 200 QQ 1A1	25	25	0.5100	1.30
	470	23T 471 M 200 PS 1A1	22	35	0.4230	1.40
	470	23T 471 M 200 QR 1A1	25	30	0.4230	1.40
	470	23T 471 M 200 RQ 1A1	30	25	0.3530	1.40
	560	23T 561 M 200 PT 1A1	22	40	0.3550	1.50
	560	23T 561 M 200 QR 1A1	25	30	0.3550	1.50
	560	23T 561 M 200 RQ 1A1	30	25	0.3550	1.50
	680	23T 681 M 200 PU 1A1	22	45	0.2930	1.70
	680	23T 681 M 200 QS 1A1	25	35	0.2930	1.70
	680	23T 681 M 200 RR 1A1	30	30	0.2440	1.70
	820	23T 821 M 200 QU 1A1	25	45	0.2630	2.00
	820	23T 821 M 200 RR 1A1	30	30	0.2630	2.00
	820	23T 821 M 200 SQ 1A1	35	25	0.2630	2.00
	1,000	23T 102 M 200 QV 1A1	25	50	0.2160	2.20
	1,000	23T 102 M 200 RS 1A1	30	35	0.2160	2.20
	1,000	23T 102 M 200 SR 1A1	35	30	0.2160	2.20
	1,200	23T 122 M 200 RT 1A1	30	40	0.1930	2.30
	1,200	23T 122 M 200 SS 1A1	35	35	0.1930	2.30
	1,500	23T 152 M 200 RV 1A1	30	50	0.1550	2.50
	1,800	23T 182 M 200 SU 1A1	35	45	0.1290	2.70
	1,800	23T 182 M 200 SX 1A1	35	63	0.0550	3.20
2,200	23T 222 M 200 SV 1A1	35	50	0.1050	2.90	
2,200	23T 222 M 200 SZ 1A1	35	80	0.0420	4.10	
2,700	23T 272 M 200 SX 1A1	35	63	0.0800	3.65	
3,300	23T 332 M 200 SZ 1A1	35	80	0.0650	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
250	68	23T 680 M 250 PO 1A1	22	20	2.9260	0.40
	68	23T 680 M 250 PQ 1A1	22	25	2.4400	0.40
	100	23T 101 M 250 PQ 1A1	22	25	1.6600	0.55
	100	23T 101 M 250 QO 1A1	25	20	1.9890	0.50
	150	23T 151 M 250 PQ 1A1	22	25	1.3300	0.65
	150	23T 151 M 250 RO 1A1	30	20	1.1100	0.75
	180	23T 181 M 250 PQ 1A1	22	25	0.9210	0.90
	220	23T 221 M 250 PR 1A1	22	30	0.7540	1.00
	220	23T 221 M 250 QQ 1A1	25	25	0.7540	1.00
	220	23T 221 M 250 SO 1A1	35	20	0.9040	0.90
	270	23T 271 M 250 PS 1A1	22	35	0.6140	1.10
	270	23T 271 M 250 QR 1A1	25	30	0.6140	1.10
	270	23T 271 M 250 RQ 1A1	30	25	0.6140	1.10
	330	23T 331 M 250 PT 1A1	22	40	0.5020	1.20
	330	23T 331 M 250 QR 1A1	25	30	0.5020	1.20
	330	23T 331 M 250 RQ 1A1	30	25	0.5020	1.20
	390	23T 391 M 250 PU 1A1	22	45	0.4250	1.30
	390	23T 391 M 250 QS 1A1	25	35	0.4250	1.30
	390	23T 391 M 250 RQ 1A1	30	25	0.4250	1.30
	470	23T 471 M 250 PV 1A1	22	50	0.3530	1.40
	470	23T 471 M 250 QT 1A1	25	40	0.3530	1.40
	470	23T 471 M 250 RR 1A1	30	30	0.3530	1.40
	560	23T 561 M 250 QU 1A1	25	45	0.2960	1.50
	560	23T 561 M 250 RS 1A1	30	35	0.2960	1.50
	560	23T 561 M 250 SQ 1A1	35	25	0.2960	1.50
	680	23T 681 M 250 QV 1A1	25	50	0.2440	1.70
	680	23T 681 M 250 RT 1A1	30	40	0.2440	1.70
	680	23T 681 M 250 SR 1A1	35	30	0.2440	1.70
	680	23T 681 M 250 SV 1A1	35	50	0.2930	1.80
	820	23T 821 M 250 RU 1A1	30	45	0.2020	2.00
	820	23T 821 M 250 SS 1A1	35	35	0.2020	2.00
	1,000	23T 102 M 250 RV 1A1	30	50	0.1990	2.20
1,000	23T 102 M 250 ST 1A1	35	40	0.1990	2.20	
1,500	23T 152 M 250 SV 1A1	35	50	0.1440	2.50	
1,500	23T 152 M 250 SY 1A1	35	70	0.0660	3.10	
1,800	23T 182 M 250 SZ 1A1	35	80	0.0570	3.60	
2,200	23T 22 M 250 SZ 1A1	35	80	0.0960	3.75	

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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
315	82	23T 820 M 315 PQ 1A1	22	25	2.4260	0.60
	100	23T 101 M 315 PR 1A1	22	30	1.9890	0.70
	120	23T 121 M 315 PR 1A1	22	30	1.6580	0.80
	120	23T 121 M 315 QQ 1A1	25	25	1.6580	0.80
	150	23T 151 M 315 PS 1A1	22	35	1.3260	0.80
	150	23T 151 M 315 QR 1A1	25	30	1.3260	0.80
	150	23T 151 M 315 RQ 1A1	30	25	1.3260	0.80
	180	23T 181 M 315 PT 1A1	22	40	1.1050	0.90
	180	23T 181 M 315 QR 1A1	25	30	1.1050	0.90
	180	23T 181 M 315 QS 1A1	25	35	1.1050	0.90
	180	23T 181 M 315 RQ 1A1	30	25	1.1050	0.90
	220	23T 221 M 315 PU 1A1	22	45	0.9040	1.00
	220	23T 221 M 315 QS 1A1	25	35	0.9040	1.00
	220	23T 221 M 315 QT 1A1	25	40	0.9040	1.00
	220	23T 221 M 315 RQ 1A1	30	25	0.9040	1.00
	220	23T 221 M 315 RR 1A1	30	30	0.9040	1.00
	270	23T 271 M 315 PV 1A1	22	50	0.7370	1.10
	270	23T 271 M 315 QT 1A1	25	40	0.7370	1.10
	270	23T 271 M 315 QU 1A1	25	45	0.7370	1.10
	270	23T 271 M 315 RR 1A1	30	30	0.7370	1.10
	270	23T 271 M 315 RS 1A1	30	35	0.7370	1.10
	270	23T 271 M 315 RT 1A1	30	40	0.7370	1.10
	270	23T 271 M 315 SR 1A1	35	30	0.7370	1.10
	330	23T 331 M 315 QU 1A1	25	45	0.6030	1.20
	330	23T 331 M 315 QV 1A1	25	50	0.6030	1.20
	330	23T 331 M 315 RS 1A1	30	35	0.6030	1.20
	330	23T 331 M 315 RT 1A1	30	40	0.6030	1.20
	330	23T 331 M 315 SR 1A1	35	30	0.6030	1.20
	390	23T 391 M 315 RU 1A1	30	45	0.5100	1.30
	390	23T 391 M 315 SS 1A1	35	35	0.5100	1.30
	470	23T 471 M 315 RU 1A1	30	45	0.4230	1.40
	470	23T 471 M 315 RV 1A1	30	50	0.4230	1.40
	470	23T 471 M 315 SS 1A1	35	35	0.4230	1.40
	470	23T 471 M 315 ST 1A1	35	40	0.4230	1.40
	560	23T 561 M 315 ST 1A1	35	40	0.3550	1.50
	560	23T 561 M 315 SU 1A1	35	45	0.3550	1.50
	680	23T 681 M 315 SU 1A1	35	45	0.2930	1.70
	680	23T 681 M 315 SV 1A1	35	50	0.2930	1.70
	820	23T 821 M 315 SX 1A1	35	63	0.1800	1.70
	820	23T 821 M 315 SV 1A1	35	50	0.2420	2.00
1,000	23T 102 M 315 SY 1A1	35	70	0.1500	2.00	
1,200	23T 122 M 315 SZ 1A1	35	80	0.1300	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	82	23T 820 M 350 PQ 1A1	22	25	2.4260	0.60
	100	23T 101 M 350 PR 1A1	22	30	1.9890	0.70
	100	23T 101 M 350 QQ 1A1	25	25	1.9890	0.70
	120	23T 121 M 350 PR 1A1	22	30	1.6580	0.80
	120	23T 121 M 350 QQ 1A1	25	25	1.6580	0.80
	150	23T 151 M 350 PS 1A1	22	35	1.3260	0.80
	150	23T 151 M 350 QR 1A1	25	30	1.3260	0.80
	150	23T 151 M 350 RQ 1A1	30	25	1.3260	0.80
	180	23T 181 M 350 PT 1A1	22	40	1.1050	0.90
	180	23T 181 M 350 QR 1A1	25	30	1.1050	0.90
	180	23T 181 M 350 RQ 1A1	30	25	1.1050	0.90
	220	23T 221 M 350 PU 1A1	22	45	0.9040	1.00
	220	23T 221 M 350 QS 1A1	25	35	0.9040	1.00
	220	23T 221 M 350 RR 1A1	30	30	0.9040	1.00
	270	23T 271 M 350 QU 1A1	25	45	0.7370	1.10
	270	23T 271 M 350 RR 1A1	30	30	0.7370	1.10
	270	23T 271 M 350 SQ 1A1	35	25	0.7370	1.10
	330	23T 331 M 350 QV 1A1	25	50	0.6030	1.20
	330	23T 331 M 350 RT 1A1	30	40	0.6030	1.20
	330	23T 331 M 350 SR 1A1	35	30	0.6030	1.20
	390	23T 391 M 350 RU 1A1	30	45	0.5100	1.30
	390	23T 391 M 350 SR 1A1	35	30	0.5100	1.30
	470	23T 471 M 350 RV 1A1	30	50	0.4230	1.40
	470	23T 471 M 350 ST 1A1	35	40	0.4230	1.40
	560	23T 561 M 350 SU 1A1	35	45	0.3550	1.50
	680	23T 681 M 350 SV 1A1	35	50	0.2930	1.70
820	23T 821 M 350 SX 1A1	35	63	0.3030	2.70	
1,000	23T 102 M 350 SY 1A1	35	70	0.1730	1.90	
1,200	23T 122 M 350 SZ 1A1	35	80	0.2070	3.20	

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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
400	33	23T 330 M 400 PO 1A1	22	20	5.0240	0.20
	33	23T 330 M 400 PQ 1A1	22	25	4.5000	0.30
	47	23T 470 M 400 PQ 1A1	22	25	2.8000	0.43
	47	23T 470 M 400 QO 1A1	25	20	3.5300	0.30
	56	23T 560 M 400 PQ 1A1	22	25	2.3600	0.50
	68	23T 680 M 400 PR 1A1	22	30	1.9500	0.60
	68	23T 680 M 400 QQ 1A1	25	25	1.9500	0.60
	68	23T 680 M 400 RO 1A1	30	20	2.4400	0.40
	82	23T 820 M 400 PR 1A1	22	30	2.0220	0.60
	82	23T 820 M 400 QQ 1A1	25	25	1.6200	0.60
	100	23T 101 M 400 PR 1A1	22	30	1.6580	0.70
	100	23T 101 M 400 QQ 1A1	25	25	1.6580	0.70
	100	23T 101 M 400 SO 1A1	35	20	1.6580	0.50
	120	23T 121 M 400 PS 1A1	22	35	1.3800	0.80
	120	23T 121 M 400 QR 1A1	25	30	1.3800	0.80
	120	23T 121 M 400 RQ 1A1	30	25	1.1100	0.80
	150	23T 151 M 400 PT 1A1	22	40	1.1100	0.80
	150	23T 151 M 400 QR 1A1	25	30	1.1100	0.80
	150	23T 151 M 400 RQ 1A1	30	25	1.1100	0.80
	180	23T 181 M 400 PU 1A1	22	45	0.9210	0.90
	180	23T 181 M 400 QS 1A1	25	35	0.9210	0.90
	180	23T 181 M 400 RR 1A1	30	30	0.9210	0.90
	180	23T 181 M 400 SQ 1A1	35	25	0.7370	0.90
	220	23T 221 M 400 QU 1A1	25	45	0.7540	1.10
	220	23T 221 M 400 RR 1A1	30	30	0.7540	1.10
	220	23T 221 M 400 SQ 1A1	35	25	0.7540	1.10
	270	23T 271 M 400 QV 1A1	25	50	0.6140	1.20
	270	23T 271 M 400 RS 1A1	30	35	0.6140	1.20
	270	23T 271 M 400 SR 1A1	35	30	0.6140	1.20
	330	23T 331 M 400 RU 1A1	30	45	0.5020	1.40
	330	23T 331 M 400 SS 1A1	35	35	0.5020	1.40
	390	23T 391 M 400 RV 1A1	30	50	0.4250	1.55
	390	23T 391 M 400 ST 1A1	35	40	0.4250	1.55
470	23T 471 M 400 SU 1A1	35	45	0.3530	1.80	
560	23T 561 M 400 SV 1A1	35	50	0.2960	1.80	
820	23T 821 M 400 SX 1A1	35	63	0.2020	2.44	
1,000	23T 102 M 400 SZ 1A1	35	80	0.2020	3.00	

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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
420	100	23T 101 M 420 PR 1A1	22	30	1.8200	0.65
	100	23T 101 M 420 QQ 1A1	25	25	1.8200	0.65
	120	23T 121 M 420 PS 1A1	22	35	1.5000	0.70
	120	23T 121 M 420 QR 1A1	25	30	1.5000	0.70
	150	23T 151 M 420 PT 1A1	22	40	1.2200	0.80
	150	23T 151 M 420 QR 1A1	25	30	1.2200	0.80
	150	23T 151 M 420 RQ 1A1	30	25	1.2200	0.80
	180	23T 181 M 420 PU 1A1	22	45	1.0000	0.88
	180	23T 181 M 420 RR 1A1	30	30	1.0000	0.88
	220	23T 221 M 420 QU 1A1	25	45	0.7500	1.10
	220	23T 221 M 420 RR 1A1	30	30	0.7500	1.10
	220	23T 221 M 420 SQ 1A1	35	25	0.7500	1.10
	270	23T 271 M 420 QV 1A1	25	50	0.6100	1.20
	270	23T 271 M 420 RS 1A1	30	35	0.6100	1.20
	270	23T 271 M 420 SR 1A1	35	30	0.6100	1.20
	330	23T 331 M 420 RU 1A1	30	45	0.5000	1.35
	330	23T 331 M 420 SS 1A1	35	35	0.5020	1.35
	390	23T 391 M 420 RV 1A1	30	50	0.4200	1.55
	390	23T 391 M 420 ST 1A1	35	40	0.4200	1.55
470	23T 471 M 420 SU 1A1	35	45	0.3500	1.75	
560	23T 561 M 420 SV 1A1	35	50	0.3000	1.80	

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	56	23T 560 M 450 PQ 1A1	22	25	2.3660	0.40
	68	23T 680 M 450 PR 1A1	22	30	1.9500	0.50
	68	23T 680 M 450 QQ 1A1	25	25	1.9500	0.50
	82	23T 820 M 450 PR 1A1	22	30	3.2350	0.60
	82	23T 820 M 450 QQ 1A1	25	25	2.0220	0.56
	100	23T 101 M 450 PS 1A1	22	35	1.6600	0.65
	100	23T 101 M 450 QR 1A1	25	30	1.6600	0.65
	100	23T 101 M 450 RQ 1A1	30	25	1.6600	0.65
	120	23T 121 M 450 PT 1A1	22	40	1.3820	0.70
	120	23T 121 M 450 QS 1A1	25	35	1.3820	0.70
	120	23T 121 M 450 RQ 1A1	30	25	1.3820	0.70
	150	23T 151 M 450 PV 1A1	22	50	1.1000	0.80
	150	23T 151 M 450 QT 1A1	25	40	1.1000	0.80
	150	23T 151 M 450 RR 1A1	30	30	1.1000	0.80
	150	23T 151 M 450 SQ 1A1	35	25	1.1000	0.80
	180	23T 181 M 450 QU 1A1	25	45	0.9200	0.90
	180	23T 181 M 450 RS 1A1	30	35	0.9200	0.90
	220	23T 221 M 450 QV 1A1	25	50	0.7500	1.00
	220	23T 221 M 450 RT 1A1	30	40	0.7500	1.00
	220	23T 221 M 450 SR 1A1	35	30	0.7500	1.00
	270	23T 271 M 450 RU 1A1	30	45	0.6140	1.20
	270	23T 271 M 450 SS 1A1	35	35	0.6140	1.20
	330	23T 331 M 450 RV 1A1	30	50	0.5020	1.40
	330	23T 331 M 450 ST 1A1	35	40	0.5020	1.40
390	23T 391 M 450 SU 1A1	35	45	0.4250	1.60	
470	23T 471 M 450 SV 1A1	35	50	0.3530	1.70	
560	23T 561 M 450 SY 1A1	35	70	0.2960	2.20	

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