



**FEATURES** 

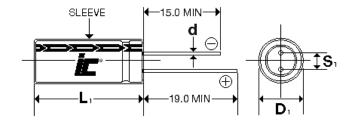
Small Size - High Voltage - General Purpose

## **APPLICATIONS**

Bypass - Coupling - Filtering - De-coupling

Operating Temperature Range		-40°C to +85°C (6.3 to 100 WVDC) -25°C to +85°C (160 to 500 WVDC)															
Capacitance Tolerance		<u>+</u> 20% at 120 Hz, 20°C															
Surge	WVDC	6.3	10	16	25	35	50	63	100	160	200	250	350	40	0	450	500
Voltage	SVDC	7.9	13	20	32	44	63	79	125	200	250	300	400	45	0	500	550
Discinstic	WVDC	6.3	10	16	25	35	50	63	100	160	200	250	350	40	0	450	500
Dissipation Factor	Tan δ	.24	0.2	.16	.14	.12	.1	.1	.08	.2	.2	.2	.2	.2	2	.2	.24
Factor			Add .02 for every 1000uF above 1000uF														
				(	6.3 to							160	to 500	WVD	С		
Leakag	e Current					linut						2	2 Minu	tes			
Lounage Ourroll		.01CV or 3uA, Whichever is greater					.03CV+10uA										
Low Temperature	WVDC	6.3	10	16	25	35	50	63	100	160	200	250	350	40	0	450	500
Stability Impedance	-25°C to +20°C	5	4	3	2	2	2	2	2	3	3	4	6	7	•	7	8
Ratio (120 Hz)	-40°C to +20°C	10	8	6	5	3	3	3	3	-	-	-	-	-		-	-
		2000 hours at 85°C with rated WVDC and ripple current applied															
Loa	d Life	Capacitance Change ≤20% of initial measured va					value	ılue									
Loa	a Liic	Dissipation Factor ≤200% of maximum spe															
		Leak	Leakage Current ≤100% of maximum specified value														
											voltage	applied					
She	If Life		citano				)% initia										
			ipation			_	<200% of maximum specified value <100% of maximum specified value										
			age Cı	_	oacita		JU% OT 1	naximu		ency (H				Temr	oratu	re (°C	1
			/DC	Cal	uF)	ice	50	120	300	1k	10k	100k	85	70	65	60	45
					47		0.75	1.0	1.35	1.57	2	2.3	1.0	1.4	1.6	1.7	1.8
Ripple Current Multipliers			3 to	6	8 to 47	70	0.8	1.0	1.23	1.34	1.5	1.65	1.0	1.4	1.6	1.7	1.8
		10	)0V		≥560		0.85	1.0	1.1	1.13	1.15	1.4	1.0	1.4	1.6	1.7	1.8
	-	16	0 to	.4	7 to 4	.7	0.65	1.0	1.35	1.75	2.3	2.5	1.0	1.4	1.6	1.7	1.8
		_	0 10 60V	6	.8 to 8	2	0.75	1.0	1.25	1.5	1.75	1.8	1.0	1.4	1.6	1.7	1.8
		40	,	10	0 to 10	000	8.0	1.0	1.15	1.3	1.4	1.5	1.0	1.4	1.6	1.7	1.8

**Special Order Options** 



D	5	6.3	8	10	12.5	16	18
S	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8

 $L_1$ =L+1.5mm Max.  $D_1$ =D+0.5mm Max.  $S_1$ =S+0.5 mm

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Sep-21

## CKR\_CKS

+85°C, Standard, 2000 Hour

6.3         1000         108CKS6R3M         0.365         610         8x11.5           6.3         2200         228CKS6R3M         0.211         900         10x16           6.3         3300         338CKS6R3M         0.129         1830         12.5x20           6.3         6800         688CKS6R3M         0.083         1930         12.5x25           6.3         15000         159CKS6R3M         0.0696         2760         16x25           6.3         15000         159CKS6R3M         0.0497         3200         18x35           6.3         22000         229CKS6R3M         0.0497         3400         18x40           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         0.1507         230         5x11           10         470         477CKS010M         0.67         385         6.3x11           10         1200         108CKS010M         0.1315         795         10x12.5           10         1500         158CKS010M         0.1315         795         10x12.5           10         2200         228CKS010M         0.1306         1685         12.5x20 <th>WVDC</th> <th>Capacitance (μF)</th> <th>IC PART NUMBER</th> <th>Maximum ESR (Ω) 120 Hz, +20°C</th> <th>Maximum RMS Ripple Current (mA) 120 Hz, +85°C</th> <th>Dims DxL (mm)</th>	WVDC	Capacitance (μF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
6.3         3300         338CKS6R3M         0.1507         1350         10x20           6.3         4700         478CKS6R3M         0.1129         1830         12,5x20           6.3         6800         688CKS6R3M         0.0696         2760         16x25           6.3         10000         109CKS6R3M         0.0696         2760         16x25           6.3         15000         159CKS6R3M         0.0497         3200         18x35           6.3         22000         229CKS6R3MRY         0.0497         3400         18x35           6.3         22000         229CKS6R3MRY         0.0497         3400         18x35           6.3         22000         229CKS6010M         1.005         325         6.3x11           10         200         227CKS010M         1.005         325         6.3x11           10         100         100 (108CKS010M         0.315         795         10x12.5           10         150         158CKS010M         0.1306         1685         12.5x25           10         200         228CKS010M         0.1306         1685         12.5x25           10         470         478CKS010M         0.0756         2610	6.3	1000	108CKS6R3M	0.365		8x11.5
6.3         4700         478CKS6R3M         0.0129         1830         12.5x20           6.3         6800         688CKS6R3M         0.083         1930         12.5x25           6.3         15000         159CKS6R3M         0.0696         2760         16x25           6.3         15000         159CKS6R3MRY         0.0497         3200         18x35           6.3         22000         229CKS6R3MRY         0.0497         3400         18x40           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         1.005         325         6.3x11           10         470         477CKS010M         0.67         385         6.3x11           10         1000         108CKS010M         0.315         795         10x12.5           10         1200         158CKS010M         0.315         795         10x12.5           10         2200         228CKS010M         0.1306         1685         12.5x20           10         4700         478CKS010M         0.0988         2105         12.5x25           10         6800         688CKS010MQ         0.0756         2610	6.3	2200	228CKS6R3M	0.211	900	10x16
6.3         6800         688CKS6R3M         0.083         1930         12.5x25           6.3         10000         109CKS6R3M         0.0696         2760         16x25           6.3         15000         159CKS6R3M         0.0497         3200         18x35           6.3         22000         229CKS6R3M         0.0497         3400         18x40           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         1.005         325         6.3x11           10         100         108CKS010M         0.67         385         6.3x11           10         100         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.315         795         10x16           10         1500         158CKS010M         0.316         1685         12.5x20           10         1500         228CKS010M         0.1306         1685         12.5x20           10         4700         478CKS010M         0.032         260         16x33           10         15000         159CKS010MKCG         0.0531         3100         16x40	6.3	3300	338CKS6R3M	0.1507	1350	10×20
6.3         10000         109CKS6R3M         0.0696         2760         16x25           6.3         15000         159CKS6R3M         0.0497         3200         16x35           6.3         22000         229CKS6R3MRY         0.0497         3400         18x40           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         1.005         325         6.3x11           10         470         477CKS010M         0.67         385         6.3x11           10         100         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.315         795         10x12.5           10         2200         228CKS010M         0.1809         1230         10x20           10         3300         338CKS010M         0.1306         1685         12.5x25           10         4700         478CKS010M         0.0988         2105         12.5x25           10         10000         109CKS010MQW         0.063         2960         16x30           10         15000         159CKS016MCG         0.0531         3100         16x4	6.3	4700	478CKS6R3M	0.1129	1830	12.5x20
6.3         15000         159CKS6R3M         0.0531         2860         16x35           6.3         22000         229CKS6R3MRY         0.0497         3200         18x35           6.3         22000         229CKS6R3MRY         0.0497         3400         18x45           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         1.005         325         6.3x11           10         100         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.1809         1230         10x20           10         2200         228CKS010M         0.1306         1685         12.5x20           10         4700         478CKS010M         0.0988         2105         12.5x25           10         6800         688CKS010MCG         0.0531         3100         16x25           10         10000         199CKS010MKCG         0.0531         3100         16x40           10         15000         159CKS010MKCG         0.0531         3100         16x40           10         1000         107CKS016M         2.653         175	6.3	6800	688CKS6R3M	0.083	1930	12.5x25
6.3         22000         229CKS6R3MRY         0.0497         3400         18x40           6.3         22000         229CKS6R3M         0.0497         3400         18x40           10         220         227CKS010M         1.507         230         5x11           10         330         337CKS010M         1.005         325         6.3x11           10         470         477CKS010M         0.67         385         6.3x11           10         1000         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.1306         1685         12.5x20           10         3300         338CKS010M         0.1306         1685         12.5x20           10         4700         478CKS010M         0.0988         2105         12.5x20           10         4700         478CKS010M         0.063         2960         16x30           10         15000         159CKS010MCG         0.0531         3100         16x40           16         100         107CKS016M         0.063         2960         16x30           16         100         107CKS016M         0.564         500         8x11.5	6.3	10000	109CKS6R3M	0.0696	2760	16x25
Color	6.3	15000	159CKS6R3M	0.0531	2860	16x35
10	6.3	22000	229CKS6R3MRY	0.0497	3200	18x35
10	6.3	22000	229CKS6R3M	0.0497	3400	18x40
10         470         477CKS010M         0.67         385         6.3x11           10         1000         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.2432         875         10x16           10         2200         228CKS010M         0.1809         1230         10x20           10         3300         338CKS010M         0.1306         1685         12.5x25           10         4700         478CKS010M         0.0756         2610         16x25           10         16000         109CKS010MQW         0.063         2960         16x30           10         15000         159CKS010MKCG         0.0531         3100         16x40           10         2200         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         0.066         290         6.3x11           16         100         108CKS016MIN         0.3316         700         10x12.5           16         1000         108CKS016M         0.3316         700         10x16.5	10	220	227CKS010M	1.507	230	5x11
10         1000         108CKS010M         0.315         795         10x12.5           10         1500         158CKS010M         0.2432         875         10x16           10         2200         228CKS010M         0.1809         1230         10x20           10         3300         338CKS010M         0.01306         1685         12.5x25           10         6800         688CKS010M         0.0756         2610         16x25           10         10000         109CKS010MCG         0.063         2960         16x30           10         15000         159CKS010MCG         0.0531         3100         16x40           10         12000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         200         227CKS016M         1.266         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016MLU         0.151         1010         10x20 </td <td>10</td> <td>330</td> <td>337CKS010M</td> <td>1.005</td> <td>325</td> <td>6.3x11</td>	10	330	337CKS010M	1.005	325	6.3x11
10	10	470	477CKS010M	0.67	385	6.3x11
10         2200         228CKS010M         0.1809         1230         10×20           10         3300         338CKS010M         0.1306         1685         12.5×20           10         4700         478CKS010M         0.0988         2105         12.5×25           10         6800         688CKS010M         0.0756         2610         16×25           10         15000         159CKS010MKCG         0.0531         3100         16×40           10         22000         229CKS010M         0.0467         3400         18×40           16         100         107CKS016M         2.653         175         5×11           16         220         227CKS016M         1.206         290         6.3×11           16         100         108CKS016M         0.364         500         8×11.5           16         100         108CKS016M         0.3316         700         10x12.5           16         1000         108CKS016M         0.3316         930         10x16           16         1000         108CKS016MU         0.151         1010         10x20           16         2200         228CKS016MU         0.151         1555         12.5x25 <td>10</td> <td>1000</td> <td>108CKS010M</td> <td>0.315</td> <td>795</td> <td>10x12.5</td>	10	1000	108CKS010M	0.315	795	10x12.5
10         3300         338CKS010M         0.1306         1685         12.5x20           10         4700         478CKS010M         0.0988         2105         12.5x25           10         6800         688CKS010M         0.0756         2610         16x30           10         10000         109CKS010MCG         0.0531         3100         16x30           10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         20         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1000         108CKS016MLN         0.151         1101         10x20           16         1000         158CKS016MLN         0.151         1555         152x20           16         2200         228CKS016MLN         0.1105         1990         12.5x	10	1500	158CKS010M	0.2432	875	10×16
10         4700         478CKS010M         0.0988         2105         12.5x25           10         6800         688CKS010M         0.0756         2610         16x25           10         10000         109CKS010MQW         0.063         2960         16x30           10         15000         159CKS010MKCG         0.0531         3100         16x40           10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         20         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1000         108CKS016MLU         0.151         1010         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x25           16         4700         478CKS016M         0.085         2490         16x25<	10	2200	228CKS010M	0.1809	1230	10×20
10         6800         688CKS010M         0.0756         2610         16x25           10         10000         109CKS010MQW         0.063         2960         16x30           10         15000         159CKS010MKCG         0.0531         3100         16x40           10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016M         0.3316         700         10x12.5           16         1000         108CKS016M         0.3316         930         10x16           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x20           16         3300         338CKS016MQV         0.085         2490         16x25           16         4700         478CKS016MAG         0.088         2250         16x25 <td>10</td> <td>3300</td> <td>338CKS010M</td> <td>0.1306</td> <td>1685</td> <td>12.5x20</td>	10	3300	338CKS010M	0.1306	1685	12.5x20
10         10000         109CKS010MQW         0.063         2960         16x30           10         15000         159CKS010MKCG         0.0531         3100         16x40           10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.3316         930         10x16           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x20           16         2200         228CKS016MLU         0.151         1555         12.5x25           16         4700         478CKS016M         0.015         1990         12.5x25           16         6800         688CKS016MKAG         0.068         3010         16	10	4700	478CKS010M	0.0988	2105	12.5x25
10         15000         159CKS010MKCG         0.0531         3100         16x40           10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016M         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x20           16         2200         228CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.105         1990         12.5x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQV         0.068         3010         16x30 </td <td>10</td> <td>6800</td> <td>688CKS010M</td> <td>0.0756</td> <td>2610</td> <td>16x25</td>	10	6800	688CKS010M	0.0756	2610	16x25
10         22000         229CKS010M         0.0467         3400         18x40           16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1510         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQV         0.068         3010         16x35           16         10000         109CKS016M         0.056         3230         18x35	10	10000	109CKS010MQW	0.063	2960	16x30
16         100         107CKS016M         2.653         175         5x11           16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1010         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MKAG         0.068         2250         16x25           16         6800         688CKS016MKAG         0.068         3010         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40 <td>10</td> <td>15000</td> <td>159CKS010MKCG</td> <td>0.0531</td> <td>3100</td> <td>16x40</td>	10	15000	159CKS010MKCG	0.0531	3100	16x40
16         220         227CKS016M         1.206         290         6.3x11           16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1500         158CKS016MLU         0.151         1010         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQV         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016MQY         0.056         3490         16x35           16         15000         159CKS016M         0.052         3100         18x4	10	22000	229CKS010M	0.0467	3400	18x40
16         470         477CKS016M         0.564         500         8x11.5           16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.199         1025         10x20           16         1500         158CKS016MLU         0.151         1010         10x20           16         2200         228CKS016MLU         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQV         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11 <td>16</td> <td>100</td> <td>107CKS016M</td> <td>2.653</td> <td>175</td> <td>5x11</td>	16	100	107CKS016M	2.653	175	5x11
16         1000         108CKS016MLN         0.3316         700         10x12.5           16         1000         108CKS016M         0.3316         930         10x16           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1010         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         10000         109CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11	16	220	227CKS016M	1.206	290	6.3x11
16         1000         108CKS016M         0.3316         930         10x16           16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1010         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQV         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11	16	470	477CKS016M	0.564	500	8x11.5
16         1500         158CKS016M         0.199         1025         10x20           16         2200         228CKS016MLU         0.151         1010         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MKAG         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         370         8x11.5	16	1000	108CKS016MLN	0.3316	700	10x12.5
16         2200         228CKS016MLU         0.151         1010         10x20           16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5     <	16	1000	108CKS016M	0.3316	930	10x16
16         2200         228CKS016M         0.151         1555         12.5x20           16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025MGM         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5 </td <td>16</td> <td>1500</td> <td>158CKS016M</td> <td>0.199</td> <td>1025</td> <td>10x20</td>	16	1500	158CKS016M	0.199	1025	10x20
16         3300         338CKS016M         0.1105         1990         12.5x25           16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MKAG         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKR025M         0.232         1095         10x20     <	16	2200	228CKS016MLU	0.151	1010	10x20
16         4700         478CKS016M         0.085         2490         16x25           16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MKAG         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKR025M         0.232         1095         10x20	16	2200	228CKS016M	0.151	1555	
16         6800         688CKS016MQV         0.068         2250         16x25           16         6800         688CKS016MKAG         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20 <td>16</td> <td>3300</td> <td>338CKS016M</td> <td>0.1105</td> <td>1990</td> <td>12.5x25</td>	16	3300	338CKS016M	0.1105	1990	12.5x25
16         6800         688CKS016MKAG         0.068         3010         16x30           16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         230         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         1500         158CKS025M         0.136         1800         12.5x25 <td></td> <td></td> <td>478CKS016M</td> <td></td> <td></td> <td></td>			478CKS016M			
16         10000         109CKS016MQY         0.056         3490         16x35           16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKR025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         1500         158CKS025M         0.136         1800         12.5x25           25         2200         228CKK025M         0.1356         1770         16x25	-					
16         10000         109CKS016M         0.056         3230         18x35           16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKR025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKR025M         0.232         1095         10x20           25         1500         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKR025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25						
16         15000         159CKS016M         0.052         3100         18x40           25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKS025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKR025M         0.232         1095         10x20           25         1500         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKR025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.703         2305         16x25           25         3300         338CKS025M         0.703         2305         16x25	-					
25         47         476CKR025M         4.938         130         5x11           25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKS025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30						
25         100         107CKS025MEM         2.321         180         5x11           25         220         227CKS025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         2200         228CKR025M         0.703         2305         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
25         220         227CKS025MGM         1.055         280         6.3x11           25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         0.053         2800         18x40 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
25         220         227CKR025M         1.055         370         8x11.5           25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11						
25         330         337CKS025M         0.703         455         8x11.5           25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1000         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11						
25         470         477CKS025M         0.494         630         10x12.5           25         1000         108CKS025M         0.232         1095         10x20           25         1000         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11		-				
25         1000         108CKS025M         0.232         1095         10x20           25         1000         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.736         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKR035M         1.090         450         10x12.5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
25         1000         108CKR025M         0.232         1150         12.5x20           25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKR035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
25         1500         158CKS025M         0.177         1210         12.5x20           25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKR035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
25         2200         228CKS025M         0.136         1800         12.5x25           25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         2200         228CKR025M         0.1356         1770         16x25           25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         3300         338CKS025M         0.703         2305         16x25           25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         4700         478CKS025M         0.078         2855         16x30           25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         6800         688CKS025MQY         0.063         2600         16x35           25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         6800         688CKS025M         0.063         3530         18x35           25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
25         10000         109CKS025M         0.053         2800         18x40           35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
35         33         336CKR035M         6.0238         110         5x11           35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
35         47         476CKS035M         4.233         140         5x11           35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
35         100         107CKS035M         1.989         235         6.3x11           35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
35         220         227CKS035M         1.055         405         8x11.5           35         220         227CKR035M         0.904         450         10x12.5						
35 220 227CKR035M 0.904 450 10x12.5						
35 330 337CKS035M 0.603 580 10x12.5						

WVDC	Capacitance (μF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
35	470	477CKS035M	0.423	755	10x16
35	1000	108CKS035M	0.199	1410	12.5x20
35	1000	108CKR035M	0.199	1370	12.5x25
35	1500	158CKR035M	0.155	1110	16x25
35	2200	228CKS035M	0.121	2135	16x25
35	2200	228CKR035M	0.1206	2090	16x30
35	3300	338CKS035MQW	0.0904	2340	16x30
35	4700	478CKS035MQY	0.071	2500	16x35
35	4700	478CKS035M	0.071	3400	18x35
35	6800	688CKS035M	0.0585	3500	18x40
50	1	105CKR050M	165.79	13	5x11
50	1.5	155CKR050M	110.52	18	5x11
50	2.2	225CKR050M	75.358	28	5x11
50	3.3	335CKS050M	50.238	35	5x11
50	4.7	475CKR050M	35.274	50	5x11
50	10	106CKR050M	16.579	75	5x11
50	15	156CKR050M	11.052	78	5x11
50	22	226CKR050M	7.536	110	5x11
50	33	336CKS050M	5.0238	130	5x11
50	47	476CKR050M	2.822	180	6.3x11
50	100	107CKR050M	1.658	310	8x11.5
50	150	157CKS050M	1.1052	263	8x11.5
50	220	227CKS050M	0.754	510	10x12.5
50	220	227CKR050M	0.754	540	10x16
50	330	337CKS050M	0.5024	710	10x16
50	330	337CKR050M	0.5024	730	10x20
50	470	477CKS050M	0.3527	815	10×20
50	470	477CKR050M	0.353	930	12.5x20
50	680	687CKS050MTJG	0.244	1000	12.5x20
50	680	687CKR050M	0.244	810	12.5x25
50	1000	108CKS050M	0.166	1715	12.5x25
50	1000	108CKR050M	0.166	1510	16x25
50	1500	158CKS050M	0.133	1650	16x30
50	2200	228CKS050MQW	0.106	2320	16x30
50	2200	228CKS050M	0.106	2390	16x35 18x35
50 50	3300 4700	338CKS050M	0.0804	3220 3340	18x35 18x40
63	10	478CKS050MLCG 106CKR063M	16.579	75	5x11
63	22	226CKS063M	7.536	115	5x11
63	22	226CKR063M	7.536	130	6.3x11
63	33	336CKR063M	5.0238	160	6.3x11
63	47		2.822	190	6.3x11
63	47	476CKS063M 476CKR063M	2.822	210	8x11.5
63	100	107CKS063MJM	1.658	325	8x11.5
63	100	107CKR063M	1.658	330	10x12.5
63	220	227CKS063M	0.754	615	10x12.5
63	330	337CKS063M	0.5024	825	10×10
63	470	477CKS063M	0.3527	1155	12.5x20
63	680	687CKS063MTJD	0.244	1515	12.5x25
63	1000	108CKS063M	0.166	2040	16x25
63	1000	108CKR063M	0.166	1670	16x30
63	2200	228CKS063M	0.106	2300	18x35
63	3300	338CKS063MLCG	0.0804	2500	18x40
100	1	105CKR100M	165.79	25	5x11
100	2.2	225CKS100M	75.357	40	5x11
100	3.3	335CKS100M	50.238	45	5x11
100	4.7	475CKR100M	28.219	55	5x11
100	10	106CKS100MEM	16.579	80	5x11

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+85°C, Standard, 2000 Hour

WVDC	Capacitance (μF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)	
100	22	226CKS100M	7.536	135	6.3x11	
100	22	226CKR100M	7.536	155	8x11.5	
100	47	476CKS100M	2.822	260	10x12.5	
100	47	476CKR100M	2.822	280	10x16	
100	100	107CKS100MLQ	1.658	340	10x16	
100	100	107CKS100M	1.658	455	10x20	
100	220	227CKS100MNU	0.754	745	12.5x20	
100	330	337CKS100M	0.5024	990	12.5x25	
100	470	477CKS100M	0.3527	1395	16x25	
100	1000	108CKS100MRY	0.166	1995	18x35	
160	10	106CKS160M	33.157	90	8x11.5	
160	22	226CKS160M	15.071	172	10x16	
160	33	336CKS160M	10.048	230	10x20	
160	47	476CKS160MLU	7.055	285	10x21	
160	47	476CKR160M	7.055	270	12.5x25	
160	100	107CKS160M	3.316	490	12.5x25	
160	220	227CKS160MQW	1.13	900	16x30	
160	330	337CKS160MLAG	1.005	1150	18x30	
160	470	477CKS160MLAD	0.7055	1460	18x35	
160	680	687CKS160MLCD	0.488	1600	18x45	
200	10	106CKS200M	33.157	100	10x12.5	
200	22	226CKS200MLQ	15.071	175	10x16	
200	33	336CKS200MLU	10.048	240	10×20	
200	47	476CKS200MTJG	7.055	310	12.5x20	
200	220	227CKS200M	1.13	960	16x35	
200	470	477CKS200MLCD	0.7055	1610	18x45	
250	1	105CKR250M	331.573	18	6.3x11	
250	2.2	225CKS250M	150.715	32	6.3x11	
250	3.3	335CKS250MGM	100.477	40	6.3x11	
250	4.7	475CKS250MGM	70.547	58	6.3x11	
250	10	106CKS250MLN	33.157	105	10x20	
250	22	226CKS250MLU	15.071	195	10x20	
250	33	336CKS250M	10.048	260	12.5x20	
250	47	476CKS250MNU	7.055	310	12.5x20	
250	47	476CKS250M	7.055	350	12.5x25	
250	100	107CKS250MQV	3.316	560	16x25	
250	220	227CKS250M	1.13	1020	18x35	
350	2.2	225CKS350M	180.858	38	6.3x11	
350	3.3	335CKS350MJM	120.572	55	8x11.5	
350	22	226CKS350M	18.0858	210	12.5x20	
350	33	336CKS350M	12.0572	300	12.5x25	

WVDC	Capacitance (μF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
350	47	476CKS350M	8.4657	390	16x25
350	100	107CKS350M	3.9789	550	18x35
400	2.2	225CKS400MEBB	180.858	38	6.3x11
400	3.3	335CKS400MJM	120.572	55	8x11.5
400	4.7	475CKS400MFH	84.6569	70	8x11.5
400	4.7	475CKS400M	84.6569	75	10x16
400	10	106CKS400MLQ	39.7887	120	10x16
400	22	226CKS400MTJG	18.0858	210	12.5x20
400	22	226CKS400M	18.0858	210	12.5x25
400	33	336CKS400MTJD	12.0572	300	12.5x25
400	33	336CKS400M	12.0572	260	16x25
400	47	476CKS400MQV	8.4657	390	16x25
400	100	107CKS400MKAD	3.9789	640	16x35
450	1	105CKS450MEBB	397.887	20	6.3x11
450	1	105CKS450M	397.887	29	8x11.5
450	2.2	225CKS450MJM	180.858	38	8x11.5
450	3.3	335CKS450MLM	120.572	40	10x12.5
450	4.7	475CKS450MLN	84.6569	70	10x12.5
450	4.7	475CKS450M	84.6569	75	10x16
450	10	106CKS450MGBW	39.7887	105	10x16
450	10	106CKS450MLU	39.7887	80	10x20
450	22	226CKS450MNV	18.0858	210	12.5x25
450	22	226CKS450M	18.0858	210	16x25
450	33	336CKS450MQV	12.0572	300	16x25
450	33	336CKS450M	12.0572	280	16x30
450	47	476CKS450MQW	8.4657	380	16x30
450	100	107CKS450MLAD	3.9789	640	18x35
450	100	107CKS450M	3.9789	550	18x40
450	150	157CKS450MLCG	2.65258	860	18x40
450	150	157CKS450MLCD	2.65258	850	18x45
500	1	105CKS500MEBB	397.887	20	6.3x11
500	2.2	225CKS500MFH	180.858	34	8x11.5
500	4.7	475CKS500MGBW	84.6569	68	10x16
500	6.8	685CKS500MGJG	58.5128	80	10x20
500	10	106CKS500MTJG	39.7887	105	12.5x20
500	22	226CKS500MKJH	18.0858	195	16x20
500	33	336CKS500MKJD	12.0572	260	16x25
500	47	476CKS500MKAG	8.4657	320	16x30
500	68	686CKS500MKAD	5.8513	430	18x35
500	82	826CKS500MKCG	4.8523	500	18x40
500	100	107CKS500MKCD	3.9789	590	18x45

