7mm height.

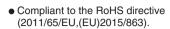
7mmL, For General Purposes

• Higher CV series with 7mm

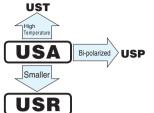
height.







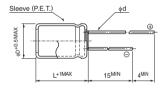
• Standard miniature series with



■Specifications

Item	USA				USR					
Category Temperature Range	- 40 to +85°C		-40 to +85°C							
Rated Voltage Range	6.3 to 50V				4 to 50V					
Rated Capacitance Range	1 to 220μF				1 to 470μF					
Capacitance Tolerance	±20% at 120Hz, 20	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' app	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
	Measurement frequency : 120Hz at 20°C									
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3	10	16	2	25	35	50	
	tan δ (MAX.)	0.35	0.24	0.20	0.16	0.16 0.1		0.12	0.10	
	Measurement frequency : 120Hz									
	Rated voltage (V)		4	6.3	10	16	25	35	50	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	6	4	3	2	2	2	2	
	(MAX.)	Z-40°C / Z+20°C	12	8	6	4	4	3	3	
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is $\tan \delta$				tance change Within ±20% of the initial capacitance value			value		
Endurance					200% or less than the initial specified		value			
	applied for 2000 hours at 85°C. Leakage current Less than or equal to the initial specified value						ed value			
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at									
Sileli Lile	20°C, they shall meet the specified values for the endurance characteristics listed above.									
Marking	Printed with white color letter on black sleeve.									

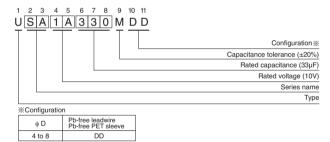
■ Radial Lead Type





				(mm)
φD	4	5	6.3	8
Р	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.5

Type numbering system (Example: USA: 10V 33µF)



• Frequency coefficient of rated ripple current

L	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
	Coefficient	0.70	1.00	1.17	1.36	1.50

USA/USR

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Rated Ripple (mArms) (85°C/120Hz)	Part Number
	33	4×7	0.35	3	33	USR0G330MDD
	47	4×7	0.35	3	39	USR0G470MDD
4	100	5×7	0.35	4	65	USR0G101MDD
(0G)	220	6.3×7	0.35	8.8	110	USR0G221MDD
	330	8×7	0.35	13.2	165	USR0G331MDD
	470	8×7	0.35	18.8	240	USR0G471MDD
	22	4×7	0.24	3	34	USA0J220MDD
	22	4×7	0.24	3	34	USR0J220MDD
	33	5×7	0.24	3	42	USA0J330MDD
	33	4×7	0.24	3	40	USR0J330MDD
	47	5×7	0.24	3	50	USA0J470MDD
6.3 (0J)	47	4×7	0.24	3	48	USR0J470MDD
(00)	100	6.3×7	0.24	6.3	77	USA0J101MDD
	100	5×7	0.24	6.3	78	USR0J101MDD
	220	8×7	0.24	13.86	130	USA0J221MDD
	220	6.3×7	0.24	13.86	120	USR0J221MDD
	330	8×7	0.24	20.79	180	USR0J331MDD
	22	5×7	0.20	3	38	USA1A220MDD
	22	4×7	0.20	3	35	USR1A220MDD
	33	5×7	0.20	3.3	47	USA1A330MDD
	33	4×7	0.20	3.3	43	USR1A330MDD
10	47	6.3×7	0.20	4.7	59	USA1A470MDD
(1A)	47	5×7	0.20	4.7	59	USR1A470MDD
	100	8×7	0.20	10	96	USA1A101MDD
	100	6.3×7	0.20	10	87	USR1A101MDD
	220	8×7	0.20	22	145	USR1A221MDD
	10	4×7	0.16	3	28	USA1C100MDD
	10	4×7	0.16	3	28	USR1C100MDD
	22	5×7	0.16	3.52	44	USA1C220MDD
	22	4×7	0.16	3.52	39	USR1C220MDD
	33	6.3×7	0.16	5.28	57	USA1C330MDD
16	33	5×7	0.16	5.28	55	USR1C330MDD
(1C)	47	6.3×7	0.16	7.52	68	USA1C470MDD
	47	5×7	0.16	7.52	65	USR1C470MDD
	100	8×7	0.16	16	107	USA1C101MDD
	100	6.3×7	0.16	16	98	USR1C101MDD
	220	8×7	0.16	35.2	150	USR1C221MDD
	10	5×7	0.14	3	33	USA1E100MDD
	10	4×7	0.14	3	28	USR1E100MDD
	22	6.3×7	0.14	5.5	51	USA1E220MDD
	22	5×7	0.14	5.5	48	USR1E220MDD
25	33	6.3×7	0.14	8.25	63	USA1E330MDD
(1E)	33	5×7	0.14	8.25	58	USR1E330MDD
	47	8×7	0.14	11.75	78	USA1E470MDD
	47	6.3×7	0.14	11.75	70	USR1E470MDD
	100	8×7	0.14	25	115	USR1E101MDD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit). If there is no size code in the part number, please add size code "1" and then add the appropriate code.

USA/USR

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Rated Ripple (mArms) (85°C/120Hz)	Part Number
	4.7	4×7	0.12	3	24	USA1V4R7MDD
	4.7	4×7	0.12	3	24	USR1V4R7MDD
	10	5×7	0.12	3.5	36	USA1V100MDD
	10	4×7	0.12	3.5	31	USR1V100MDD
35 (1V)	22	6.3×7	0.12	7.7	57	USA1V220MDD
(11)	22	5×7	0.12	7.7	52	USR1V220MDD
	33	8×7	0.12	11.55	72	USA1V330MDD
	33	6.3×7	0.12	11.55	65	USR1V330MDD
	47	8×7	0.12	16.45	85	USR1V470MDD
	1	4×7	0.10	3	10	USA1H010MDD
	1	4×7	0.10	3	10	USR1H010MDD
	2.2	4×7	0.10	3	19	USA1H2R2MDD
	2.2	4×7	0.10	3	19	USR1H2R2MDD
	3.3	4×7	0.10	3	24	USA1H3R3MDD
	3.3	4×7	0.10	3	24	USR1H3R3MDD
50 (1H)	4.7	5×7	0.10	3	29	USA1H4R7MDD
(,	4.7	4×7	0.10	3	28	USR1H4R7MDD
	10	6.3×7	0.10	5	44	USA1H100MDD
	10	5×7	0.10	5	38	USR1H100MDD
	22	8×7	0.10	11	65	USA1H220MDD
	22	6.3×7	0.10	11	58	USR1H220MDD
	33	8×7	0.10	16.5	75	USR1H330MDD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit). If there is no size code in the part number, please add size code "1" and then add the appropriate code.

Please refer to page 18, 19 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

Mouser Electronics

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Nichicon:

USA0J220MDD USA0J221MDD USA0J330MDD USA0J470MDD USA1C100MDA USA1C100MDA1TE USA1C100MDD USA1E330MCA1TP USA1E330MDA USA1E330MDD USA1E470MDD USA1H3R3MDD USA1H4R7MCA USA1H4R7MDA USA1H4R7MDD USA1V4R7MCA1TP USA1V4R7MDA USA1V4R7MDA1TP USA1V4R7MDD USA0J101MCA USA0J101MCA1TP USA0J101MDD USA1A330MDD USA1A470MDD USA1E100MDA1TP USA1E100MDD USA1E220MDD USA1H220MDD USA1H2R2MCA USA1H2R2MCA1TE USA1H2R2MDA USA1H2R2MDA1TE USA1H2R2MDA1TP USA1H2R2MDD USA1A101MDD USA1A220MDD USA1C330MDD USA1C470MCA1TP USA1C470MDA USA1C470MDA1TP USA1C470MDD USA1E100MCA USA1E100MCA1TP USA1E100MDA USA1H100MDA USA1H100MDA1TP USA1H100MDD USA1H220MCA USA1HR47MCA1TE USA1HR47MDD USA1V100MCA1TP USA1V100MDA USA1V100MDA1TE USA1V100MDD USA1C101MDD USA1C220MDA USA1C220MDA1TE USA1C220MDD USA1H010MCA USA1H010MCA1TE USA1H010MDA USA1H010MDD USA1H0R1MDD USA1HR22MDD USA1HR33MDD USA1V220MCA1TP USA1V220MDA USA1V220MDD USA1V330MDD USR0G331MDD USR0G470MDD USR0G471MDD USR1A101MDA1TP USR1A101MDD USR1A220MDA USR1A220MDD USR1A221MCA USR1A221MCA1TD USR1A221MDD USR0G221MDD USR0G330MDD USR0G101MDD USR0J221MDA USR0J221MDD USR0J330MDA USR0J330MDD USR0J331MCA USR0J101MCA USR0J101MDA USR0J101MDD USR0J220MDA USR0J220MDD USR1A330MDA USR1A330MDD USR1A470MDA USR1A470MDD USR1C330MDD USR1C470MDA USR1C470MDD USR1E100MDA