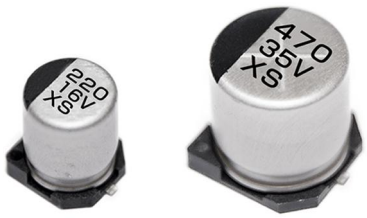
WXS Series

SMD Standard Aluminum Electrolytic Capacitor

FEATURES

- 85℃ 2,000Hours Standard
- Solvent proof (within 2 minutes)

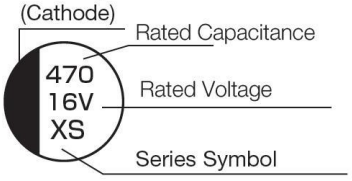


DIMENSIONS (mm)

[φD≤10]

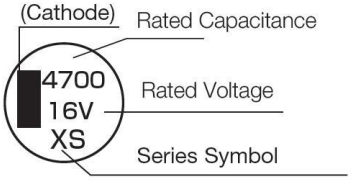
Polarity (Cathode)

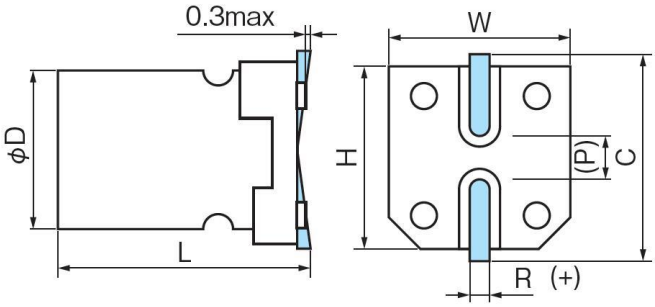
Black print on the case top



[φD≥12.5]

Polarity (Cathode)





A pressure relief vent is provided for φD=8 or bigger

ΦD±0.5	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4±0.4	4.3	4.3	5.1	0.5~0.8	1
5	5.4±0.4	5.3	5.3	6.1	0.5~0.8	1.3
6.3	5.4±0.4	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7±0.4	6.6	6.6	7.3	0.5~0.8	2.2
8	6.5±0.5	8.3	8.3	9.2	0.7~1.2	3.1
8	10.5±0.5	8.3	8.3	9.2	0.7~1.2	3.1
10	7.7±0.5	10.3	10.3	11.2	0.7~1.2	4.4
10	10.5±0.5	10.3	10.3	11.2	0.7~1.2	4.4
10	13.5±0.5	10.3	10.3	11.2	0.7~1.2	4.4
12.5	13.5±0.5	13	13	14	1.0~1.4	4.4
12.5	16.0±0.5	13	13	14	1.0~1.4	4.4
16	16.5±0.5	17	17	18	1.0~1.4	6.4

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SPECIFICATIONS

Items	Condition			Specifications								
Rated voltage (V)	—			4	6.3	10	16	25	35	50	63	100
Surge voltage (V)	Room temperature			5	8	13	20	32	44	63	79	125
Category temperature range (℃)	—			−40 to ＋85								
Capacitance tolerance (%)	120Hz/20℃			M : ±20								
Dissipation Factor（tan δ）	tanδ（max） 120Hz/20℃	φ4 to φ10		0.35	0.3	0.24	0.2	0.18	0.16	0.14	0.14	0.14
		φ12.5 to φ16		0.4	0.38	0.34	0.3	0.28	0.22	0.18	0.16	0.16
				Exceeding 1,000μF, ＋0.02 every 1,000μF								
Leakage current（LC）	μA/after 2 minutes (max)			The greater value of either 0.01CV or 3μA								
Impedance ratio at low temperature	Based on the value at 120Hz, ＋20℃	−25℃	$Z/Z_{20℃}$	7	4	3	2	2	2	2	2	2
		−40℃	$Z/Z_{20℃}$	15	8	6	4	4	3	3	3	3
Endurance	85℃, 2,000hours rated voltage applied (With the rated ripple current)	△C/C		Within ±20% of the initial value								
		tanδ		Less than 200% of the specified value								
		LC		Less than the specified value								

RATED RIPPLE CURRENT FREQUENCY COEFFICIENT

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤4.7	1	1.3	1.5	1.8
	4.7<C≤33	1	1.2	1.3	1.45
	33<C	1	1.1	1.2	1.3

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STANDARD RATINGS

μF \ V	4		6.3		10		16		25	
	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
4.7									4×5.4	13
10							4×5..4	18	4×5.4	18
									5×5.4	20
22			4×5.4	22	4×5.4	20	4×5.4	20	5×5.4	25
					5×5.4	25	5×5.4	27	6.3×5.4	36
33	4×5.4	18	4×5.4	22	4×5.4	22	5×5.4	28	5×5.4	29
			5×5.4	27	5×5.4	30	6.3×5.4	40	6.3×5.4	44
47	4×5.4	24	4×5.4	23	4×5.4	25	5×5.4	30	6.3×5.4	48
			5×5.4	33	5×5.4	30	6.3×5.4	48	8×6.5	80
56	4×5.4	27	5×5 .4	32	6.3×5.4	40	6.3×5.4	52	6.3×5.4	58
68	5×5.4	31	6.3×5.4	43	6.3×5.4	50	6.3×5.4	56	6.3×5.4	65
100	5×5.4	43	5×5.4	40	5×5.4	40	6.3×5.4	60	6.3×5.4	80
	6.3×5.4	50	6.3×5.4	50	6.3×5.4	53	8×6.5	100	6.3×7.7	91
150	6.3×5.4	52	6.3×5.4	55	6.3×5.4	62	6.3×7.7	105	6.3×7.7	100
							8×6.5	120	8×10.5	140
220	6.3×5.4	57	6.3×5.4	67	6.3×5.4	67	6.3×7.7	105	8×10.5	175
			6.3×7.7	105	6.3×7.7	105	8×6.5	105	10×7.7	160
					8×6.5	105	8×10.5	150		
330	6.3×7.7	100	6.3×7.7	105	6.3×7.7	135	8×10.5	195	8×10.5	220
			8×6.5	105	8×10.5	195	10×7.7	175	10×10.5	240
470	6.3×7.7	105	6.3×7.7	120	6.3×7.7	120	8×10.5	270	10×10.5	280
	8×6.5	105	8×10.5	230	8×10.5	230	10×10.5	300		
680	8×10.5	210	8×10.5	230	8×10.5	230	10×10.5	315	10×10.5	245
					10×10.5	270				
1000	8×10.5	230	8×10.5	290	8×10.5	290	10×10.5	340		
	10×7.7	230	10×7.7	230	10×10.5	315				
			10×10.5	315						
1500	10×10.5	315	10×10.5	410	10×10.5	335				
2200	10×10.5	340								

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μF \ V	35		50		63		100	
	Size	RC	Size	RC	Size	RC	Size	RC
0.1			4×5.4	2	4×5.4	2		
0.22			4×5.4	4	4×5.4	4		
0.33			4×5.4	4	4×5.4	4		
0.47			4×5.4	5	4×5.4	5		
1			4×5.4	8	4×5.4	8	4×5.4	8
2.2			4×5.4	11	4×5.4	11	5×5.4	12
							6.3×5.4	14
3.3	4×5.4	13	4×5.4	14	5×5.4	14	6.3×7.7	32
					6.3×5.4	30	8×6.5	30
4.7	4×5.4	15	4×5.4	14	5×5.4	19	5×5.4	15
			5×5.4	19	6.3×5.4	25	6.3×5.4	21
							6.3×7.7	35
10	4×5.4	18	5×5.4	20	6.3×5.4	24	6.3×5.4	25
	5×5.4	25	6.3×5.4	31	6.3×7.7	39	6.3×7.7	35
					8×6.5	25	8×10.5	77
22	5×5.4	34	6.3×5.4	42	6.3×7.7	49	8×10.5	84
	6.3×5.4	42	6.3×7.7	51	8×6.5	55	10×10.5	126
			8×6.5	70	8×10.5	98		
33	6.3×5.4	50	6.3×7.7	60	8×10.5	112	10×10.5	133
	8×6.5	85	8×6.5	70				
47	6.3×5.4	58	6.3×7.7	63	8×10.5	119	10×10.5	140
	6.3×7.7	78	8×6.5	85	10×10.5	160	↑ Case size:φDxL(mm)	↑ Rated ripple current:mArms(120Hz, 105℃)
	8×6.5	85	8×10.5	120				
68	6.3×7.7	80	8×6.5	70	10×10.5	140		
	8×6.5	90	8×10.5	120				
100	6.3×7.7	92	8×10.5	160	10×10.5	196		
	8×10.5	150	10×10.5	180				
	10×7.7	160	10×7.7	160				
150	8×10.5	185	10×10.5	200				
220	8×10.5	220	10×10.5	220				
	10×10.5	250						
330	10×10.5	300						
470	10×10.5	310						

Note: Other Values are available on request. WEET is capable of doing custom service for you.

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PN Structure

WXS	0J	0R1	M	040054	T	R
Series	Rated Voltage 1.	Capacitance 2.	Capacitance Tolerance 3.	Dimension 4.	Packing 5.	Pb 6.

1. Rated Voltage

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V	100V

2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	040054	050054	063054	080105	100105
Dimension (mm)	4x5.4	5×5.4	6.3×5.4	8x10.5	10x10.5

5. Packing

Code	T
Packing	Tape & Reel

6. Pb

Code	L	R
Pb	Leaded	RoHS

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