

ALS40/41

Rated voltage d.c.	Cap (μ F)	Case Size (mm)	ESR (m Ω) at 20 °C 100Hz (max)	Impedance (m Ω) at 20 °C 10 KHz (max)	Ripple current (A) at 105 °C		Type number
					100 Hz	10 KHz	
10V d.c. (11.5V surge)	33000	36x52	22	19	7.1	7.5	ALS4 - - 333DA010
	47000	36x62	16	14	8.6	9.0	ALS4 - - 473DB010
	68000	36x82	11	10	11.5	12.0	ALS4 - - 683DE010
	100000	36x105	8	7	14.5	15.1	ALS4 - - 104DF010
	150000	51x82	12	11	12.3	12.4	ALS4 - - 154KE010
	220000	51x105	8	8	16.8	17.0	ALS4 - - 224KF010
	330000	77x75	13	12	14.1	14.1	ALS4 - - 334ND010
	330000	66x105	6	6	24.4	24.7	ALS4 - - 334MF010
	330000	91x67	8	8	19.2	19.7	ALS4 - - 334RC010
	470000	91x75	11	11	16.4	16.5	ALS4 - - 474RD010
	470000	77x105	7	7	23.1	23.2	ALS4 - - 474NF010
	680000	91x98	7	7	23.5	23.6	ALS4 - - 684RH010
	680000	77x146	5	5	27.4	27.8	ALS4 - - 684NP010
	1000000	91x146	4	4	38.3	38.5	ALS4 - - 105RP010
	1000000	77x220	4	4	37.8	38.3	ALS4 - - 105NT010
	1500000	91x220	4	4	45.5	46.0	ALS4 - - 155RT010
16V d.c. (18.4V surge)	22000	36x52	24	20	7.0	7.4	ALS4 - - 223DA016
	33000	36x62	17	14	8.5	8.9	ALS4 - - 333DB016
	47000	36x82	11	10	11.3	11.9	ALS4 - - 473DE016
	68000	36x105	9	8	14.3	15.0	ALS4 - - 683DF016
	100000	51x82	12	11	12.3	12.5	ALS4 - - 104KE016
	150000	51x105	8	8	16.7	17.0	ALS4 - - 154KF016
	220000	77x75	12	12	14.2	14.3	ALS4 - - 224ND016
	220000	66x105	6	6	24.5	24.8	ALS4 - - 224MF016
	330000	91x67	8	8	19.2	19.7	ALS4 - - 334RC016
	330000	91x75	11	11	16.2	16.2	ALS4 - - 334RD016
	330000	77x105	7	7	22.7	22.9	ALS4 - - 334NF016
	470000	91x98	8	7	23.4	23.5	ALS4 - - 474RH016
	470000	77x146	5	5	32.3	32.6	ALS4 - - 474NP016
	680000	91x146	4	4	38.3	38.5	ALS4 - - 684RP016
	680000	77x220	4	4	39.6	40.4	ALS4 - - 684NT016
	1000000	91x220	4	3	47.8	48.6	ALS4 - - 105RT016
25V d.c. (28.5V surge)	15000	36x52	24	20	6.9	7.3	ALS4 - - 153DA025
	22000	36x62	17	15	8.4	8.8	ALS4 - - 223DB025
	33000	36x82	11	10	11.1	11.7	ALS4 - - 333DE025
	47000	36x105	9	8	14.0	14.7	ALS4 - - 473DF025
	68000	51x82	13	12	12.0	12.2	ALS4 - - 683KE025
	100000	51x105	9	8	16.4	16.7	ALS4 - - 104KF025
	150000	77x75	13	13	13.7	13.8	ALS4 - - 154ND025
	150000	66x105	6	6	23.8	24.1	ALS4 - - 154MF025
	150000	91x75	10	10	18.7	18.8	ALS4 - - 154RD025
	220000	91x67	9	8	18.6	19.2	ALS4 - - 224RC025
	220000	77x105	8	7	22.3	22.4	ALS4 - - 224NF025
	330000	91x98	8	8	22.3	22.4	ALS4 - - 334RH025
	330000	77x146	5	5	31.0	31.1	ALS4 - - 334NP025
	470000	91x146	4	4	36.9	37.1	ALS4 - - 474RP025
	470000	77x220	4	4	38.9	39.8	ALS4 - - 474NT025
	680000	91x220	4	3	47.0	48.1	ALS4 - - 684RT025
40V d.c. (46V surge)	10000	36x52	23	19	6.6	6.9	ALS4 - - 103DA040
	10000	36x62	19	16	8.1	8.7	ALS4 - - 103DB040
	15000	36x82	13	10	10.8	11.6	ALS4 - - 153DE040
	22000	36x105	10	8	13.6	14.5	ALS4 - - 223DF040
	33000	51x82	13	12	11.7	12.0	ALS4 - - 333KE040
	47000	51x105	9	8	16.2	16.6	ALS4 - - 473KF040
	68000	77x75	13	13	13.9	14.0	ALS4 - - 683ND040
	100000	66x105	7	7	20.6	20.8	ALS4 - - 104MF040
	100000	91x67	10	9	17.7	18.5	ALS4 - - 104RC040
	100000	91x75	12	11	16.0	16.1	ALS4 - - 104RD040
	100000	77x105	7	7	22.4	22.7	ALS4 - - 104NF040
	150000	91x98	8	8	22.6	22.8	ALS4 - - 154RH040
	150000	77x146	5	5	31.3	31.6	ALS4 - - 154NP040
	220000	91x146	4	4	36.8	37.1	ALS4 - - 224RP040
	220000	77x220	4	4	37.7	39.2	ALS4 - - 224NT040
	330000	91x220	4	4	45.6	47.0	ALS4 - - 334RT040

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Mounting Style 0 or 1 

Termination Style A,B,C,F,G,J,M or R 

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Rated voltage d.c.	Cap (μ F)	Case Size (mm)	ESR ($m\Omega$) at 20 °C		Impedance ($m\Omega$) at 20 °C		Ripple current (A) at 105 °C		Type number
			100Hz (max)	10 KHz (max)	100 Hz	10 KHz			
63V d.c. (72.5V surge)	3300	36x52	38	30	5.5	6.2	ALS4 - - 332DA063		
	4700	36x62	27	22	6.7	7.5	ALS4 - - 472DB063		
	6800	36x82	19	15	8.9	10.0	ALS4 - - 682DE063		
	10000	36x105	13	10	11.2	12.6	ALS4 - - 103DF063		
	15000	51x82	16	15	10.7	11.2	ALS4 - - 153KE063		
	22000	51x105	11	10	14.7	15.3	ALS4 - - 223KF063		
	22000	77x75	14	12	14.6	15.1	ALS4 - - 223ND063		
	33000	66x105	8	7	21.3	22.2	ALS4 - - 333MF063		
	33000	91x67	10	8	18.1	20.1	ALS4 - - 333RC063		
	33000	91x75	11	11	17.1	17.5	ALS4 - - 333RD063		
	47000	77x105	9	8	20.7	21.1	ALS4 - - 473NF063		
	47000	91x98	8	7	24.4	25.1	ALS4 - - 473RH063		
	68000	77x146	6	6	29.1	29.8	ALS4 - - 683NP063		
	100000	91x146	5	5	34.5	35.2	ALS4 - - 104RP063		
	100000	77x220	4	4	36.7	38.8	ALS4 - - 104NT063		
	150000	91x220	4	4	44.4	46.5	ALS4 - - 154RT063		
	100V d.c. (115V surge)	1500	36x52	79	62	3.9	4.5	ALS4 - - 152DA100	
2200		36x62	56	44	4.8	5.5	ALS4 - - 222DB100		
3300		36x82	37	29	6.4	7.4	ALS4 - - 332DE100		
4700		36x105	26	21	8.1	9.3	ALS4 - - 472DF100		
6800		51x82	32	28	8.0	8.4	ALS4 - - 682KE100		
10000		51x105	21	18	10.9	11.5	ALS4 - - 103KF100		
15000		77x75	28	26	9.7	9.9	ALS4 - - 153ND100		
15000		66x105	14	12	15.8	16.7	ALS4 - - 153MF100		
15000		91x75	20	18	12.9	13.4	ALS4 - - 153RD100		
22000		91x67	17	16	14.3	15.2	ALS4 - - 223RC100		
22000		77x105	15	13	15.5	16.0	ALS4 - - 223NF100		
22000		91x98	13	11	18.4	19.0	ALS4 - - 223RH100		
33000		77x146	10	10	21.6	22.2	ALS4 - - 333NP100		
47000		91x146	9	8	25.9	26.5	ALS4 - - 473RP100		
47000		77x220	7	6	35.4	36.6	ALS4 - - 473NT100		
100000		91x220	6	6	37.2	37.9	ALS4 - - 104RT100		
200V d.c. (230V surge)		680	36x52	195	154	2.9	4.0	ALS4 - - 681DA200	
	680	36x62	188	147	3.3	4.6	ALS4 - - 681DB200		
	1000	36x82	128	100	4.3	6.1	ALS4 - - 102DE200		
	1500	36x105	86	67	5.6	7.8	ALS4 - - 152DF200		
	2200	51x82	71	58	6.8	8.0	ALS4 - - 222KE200		
	3300	51x105	47	38	9.1	10.9	ALS4 - - 332KF200		
	4700	77x75	48	42	8.7	9.4	ALS4 - - 472ND200		
	6800	66x105	27	23	12.9	14.5	ALS4 - - 682MF200		
	6800	91x67	37	28	11.8	15.9	ALS4 - - 682RC200		
	6800	91x75	36	32	10.9	11.7	ALS4 - - 682RD200		
	6800	77x105	29	25	13.4	14.8	ALS4 - - 682NF200		
	10000	91x98	23	20	15.4	16.6	ALS4 - - 103RH200		
	10000	77x146	19	16	19.3	21.5	ALS4 - - 103NP200		
	15000	91x146	14	12	24.2	26.5	ALS4 - - 153RP200		
	22000	77x220	11	10	29.5	31.6	ALS4 - - 223NT200		
	33000	91x220	10	8	34.3	36.4	ALS4 - - 333RT200		
	250V d.c. (287V surge)	470	36x52	235	174	2.5	3.9	ALS4 - - 471DA250	
680		36x62	164	122	3.2	4.8	ALS4 - - 681DB250		
1000		36x82	111	83	4.2	6.3	ALS4 - - 102DE250		
1000		36x105	108	79	4.7	7.5	ALS4 - - 102DF250		
1500		51x82	83	64	6.2	8.2	ALS4 - - 152KE250		
2200		51x105	56	42	8.3	11.1	ALS4 - - 222KF250		
3300		77x75	52	42	8.5	9.7	ALS4 - - 332ND250		
4700		66x105	30	24	12.3	15.0	ALS4 - - 472MF250		
4700		91x67	42	30	10.9	16.3	ALS4 - - 472RC250		
4700		91x75	38	32	10.7	12.1	ALS4 - - 472RD250		
6800		77x105	30	25	12.1	13.4	ALS4 - - 682NF250		
6800		91x98	25	20	15.1	17.3	ALS4 - - 682RH250		
10000		77x146	19	16	17.5	19.5	ALS4 - - 103NP250		
15000		91x146	14	12	21.9	23.9	ALS4 - - 153RP250		
15000		77x220	12	10	29.2	33.0	ALS4 - - 153NT250		
22000		91x220	11	9	34.1	38.2	ALS4 - - 223RT250		

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Mounting Style 0 or 1 
Termination Style A,B,C,F,G,J,M or R 


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Rated voltage d.c.	Cap (μ F)	Case Size (mm)	ESR ($m\Omega$) at 20 °C 100Hz (max)	Impedance ($m\Omega$) at 20 °C 10 KHz (max)	Ripple current (A) at 105 °C		Type number
					100 Hz	10 KHz	
350V d.c. (385V surge)	220	36x52	457	303	1.8	4.5	ALS4 - - 221DA350
	330	36x62	307	204	2.4	5.7	ALS4 - - 331DB350
	470	36x82	215	143	3.0	7.2	ALS4 - - 471DE350
	680	36x105	149	99	3.9	8.9	ALS4 - - 681DF350
	1000	51x82	113	78	5.0	10.0	ALS4 - - 102KE350
	1500	51x105	75	52	6.8	12.5	ALS4 - - 152KF350
	2200	77x75	66	49	8.3	13.7	ALS4 - - 222ND350
	2200	66x105	51	35	9.8	17.9	ALS4 - - 222MF350
	2200	91x67	74	52	9.1	16.4	ALS4 - - 222RC350
	2200	91x75	56	40	9.4	17.8	ALS4 - - 222RD350
	3300	77x105	41	30	11.7	19.7	ALS4 - - 332NF350
	4700	91x98	31	23	14.6	23.2	ALS4 - - 472RH350
	4700	77x146	27	20	15.7	23.6	ALS4 - - 472NP350
	6800	91x146	19	14	20.3	29.7	ALS4 - - 682RP350
	6800	77x220	23	17	25.4	35.7	ALS4 - - 682NT350
	10000	91x220	21	16	31.0	42.7	ALS4 - - 103RT350
	400V d.c. (440V surge)	220	36x52	542	349	2.0	4.9
220		36x62	537	344	2.1	5.4	ALS4 - - 221DB400
470		36x82	254	164	3.2	7.8	ALS4 - - 471DE400
470		36x105	251	161	3.5	8.5	ALS4 - - 471DF400
680		51x82	183	121	4.2	9.8	ALS4 - - 681KE400
1000		51x105	124	81	5.6	12.3	ALS4 - - 102KF400
1500		77x75	93	64	7.6	13.9	ALS4 - - 152ND400
2200		66x105	60	41	9.7	18.1	ALS4 - - 222MF400
2200		91x67	63	44	9.4	15.9	ALS4 - - 222RC400
2200		91x75	67	47	10.0	17.5	ALS4 - - 222RD400
2200		77x105	62	42	10.6	19.8	ALS4 - - 222NF400
3300		91x98	44	31	13.6	23.4	ALS4 - - 332RH400
4700		77x146	33	23	15.4	22.6	ALS4 - - 472NP400
6800		91x146	23	17	20.0	28.3	ALS4 - - 682RP400
6800		77x220	21	15	23.5	33.3	ALS4 - - 682NT400
10000		91x220	18	14	29.0	40.3	ALS4 - - 103RT400
415V d.c. (456V surge)		220	36x52	530	331	2.0	5.0
	220	36x62	524	325	2.1	5.4	ALS4 - - 221DB415
	330	36x82	349	217	2.8	7.1	ALS4 - - 331DE415
	470	36x105	245	152	3.5	8.7	ALS4 - - 471DF415
	680	51x82	180	115	4.4	9.9	ALS4 - - 681KE415
	1000	51x105	122	77	5.8	12.3	ALS4 - - 102KF415
	1500	77x75	95	65	7.6	13.8	ALS4 - - 152ND415
	2200	66x105	60	39	9.7	18.1	ALS4 - - 222MF415
	2200	91x67	61	43	9.4	15.8	ALS4 - - 222RC415
	2200	91x75	67	47	10.0	17.3	ALS4 - - 222RD415
	2200	77x105	61	41	10.7	19.7	ALS4 - - 222NF415
	3300	91x98	44	30	13.6	23.3	ALS4 - - 332RH415
	3300	77x146	40	27	14.2	23.6	ALS4 - - 332NP415
	4700	91x146	29	19	18.5	29.8	ALS4 - - 472RP415
	6800	77x220	21	14	23.0	32.5	ALS4 - - 682NT415
	10000	91x220	18	14	28.3	39.3	ALS4 - - 103RT415
	450V d.c. (495V surge)	150	36x52	721	360	1.8	4.5
150		36x62	715	356	1.9	4.8	ALS4 - - 151DB450
220		36x82	487	242	2.5	6.2	ALS4 - - 221DE450
330		36x105	325	162	3.2	7.9	ALS4 - - 331DF450
470		51x82	239	123	4.1	9.0	ALS4 - - 471KE450
680		51x105	164	84	5.3	11.3	ALS4 - - 681KF450
1000		77x75	125	69	7.0	13.2	ALS4 - - 102ND450
1500		66x105	79	42	8.9	17.1	ALS4 - - 152MF450
1500		91x67	78	57	8.7	15.3	ALS4 - - 152RC450
1500		91x75	87	49	9.3	16.7	ALS4 - - 152RD450
1500		77x105	80	43	9.8	18.7	ALS4 - - 152NF450
2200		91x98	58	32	12.5	22.5	ALS4 - - 222RH450
2200		77x146	54	29	13.1	22.9	ALS4 - - 222NP450
3300		77x146	38	27	14.6	22.0	ALS4 - - 332NP450
3300		91x146	37	20	17.4	28.9	ALS4 - - 332RP450
4700		77x220	27	15	21.9	32.0	ALS4 - - 472NT450
6800		91x220	19	15	23.5	39.2	ALS4 - - 682RT450

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Mounting Style 0 or 1 

Termination Style A,B,C,F,G,J,M or R 

Screw Terminal Capacitors

ALS40/41

Rated voltage d.c.	Cap (μ F)	Case Size (mm)	ESR ($m\Omega$) at 20 °C		Impedance ($m\Omega$) at 20 °C		Ripple current (A) at 105 °C		Type number
			100Hz (max)	10 KHz (max)	100 Hz	10 KHz			
500V d.c. (550V surge)	100	36x52	1499	1135	0.9	1.4	ALS4 - - 101DA500		
	150	36x62	1002	758	1.1	1.8	ALS4 - - 151DB500		
	220	36x82	683	500	1.5	2.4	ALS4 - - 221DE500		
	330	36x105	456	347	1.9	3.1	ALS4 - - 331DF500		
	470	51x82	332	240	2.9	4.0	ALS4 - - 471KE500		
	680	51x105	228	170	3.8	5.1	ALS4 - - 681KF500		
	680	77x75	234	173	4.2	5.8	ALS4 - - 681ND500		
	680	91x67	242	201	4.9	6.3	ALS4 - - 681RC500		
	1000	66x105	155	117	5.5	7.4	ALS4 - - 102MF500		
	1000	91x75	161	119	5.6	7.8	ALS4 - - 102RD500		
	1500	77x105	110	81	6.9	9.5	ALS4 - - 152NF500		
	1500	91x98	107	79	7.8	10.6	ALS4 - - 152RH500		
	2200	77x146	74	57	9.7	12.7	ALS4 - - 222NP500		
	3300	91x146	51	40	13.0	16.8	ALS4 - - 332RP500		
	3300	77x220	49	39	15.4	19.4	ALS4 - - 332NT500		

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