

PCB Snap-In Capacitors

ALC10/40 series

Listed here are only samples of the range of PCB mounting Snap-In Capacitors we can produce.

Electrical characteristics and case size are just two parameters that can be optimised by our design engineers to achieve the exact product you require. Please contact our sales office for more details.



ALC10 Series

The ALC10 series of snap-in capacitors cover a wide range of case sizes and voltage ratings featuring high ripple currents and long life performance. They are ideally suited for industrial and commercial applications demanding high reliability and long life expectancy such as frequency converters, UPS systems and switch mode power supplies.

ALC40 Series

The ALC40 series of snap-in capacitors feature the same high ripple currents and long life characteristics as the ALC10 series but can operate at higher temperatures. They are similarly suited for high reliability and long life applications such as frequency converters, UPS systems and switch mode power supplies, but the extended temperature range allows increased ripple currents at lower temperatures.

ALC12/42

The ALC12 (85°C) and ALC42 (105°C) are high CV, snap-in, versions of the ALC10 and ALC40 ranges. Both series are designed for applications where high reliability and compact sizes are important such as switch mode power supplies and frequency converters. An overview of both series can be found on pages 43 to 46.

	ALC10	ALC40
Capacitance Range	39µF to 220,000µF	33µF to 220,000µF
Capacitance Tolerance	±20%	±20%
Voltage Range	10V to 500V d.c.	10V to 450V d.c.
Temperature range	-40°C to +85°C	-40°C to +105°C
Case sizes	22 x 30mm to 50 x 105mm	22 x 30mm to 50 x 105mm

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ALC10

Rated voltage d.c.	Cap (μF)	Case Size (mm)	ESR ($\text{m}\Omega$) at 20 °C 100Hz (max)	Impedance ($\text{m}\Omega$) at 20 °C 10 KHz (max)	Ripple current (A) at 85 °C		Type number
					100 Hz	10 KHz	
63V d.c. (72.5V surge)	1500	22x30	199	157	1.70	1.89	ALC10A152AB063
	2200	25x30	149	118	2.13	2.37	ALC10A222BB063
	2200	22x40	149	118	2.19	2.44	ALC10A222AD063
	2700	25x35	128	101	2.43	2.70	ALC10A272BC063
	3300	30x30	112	88	2.77	3.08	ALC10A332CB063
	3300	25x40	112	88	2.73	3.04	ALC10A332BD063
	4700	30x35	91	72	3.24	3.61	ALC10A472CC063
	5600	30x40	83	66	3.56	3.96	ALC10A562CD063
	6800	35x35	75	59	3.95	4.40	ALC10A682DC063
	6800	30x50	75	59	4.07	4.53	ALC10A682CF063
	8200	35x40	69	55	4.31	4.80	ALC10A822DD063
	8200	40x30	82	72	3.95	4.03	ALC10A822EB063
	10000	35x50	64	51	4.85	5.40	ALC10A103DF063
	10000	40x35	80	72	4.58	4.67	ALC10A103EC063
	12000	40x40	64	57	5.42	5.55	ALC10A123ED063
	15000	40x50	44	39	7.02	7.18	ALC10A153EF063
	18000	40x60	35	31	8.54	8.75	ALC10A183EH063
	27000	40x80	24	21	10.53	10.78	ALC10A273EL063
	39000	40x105	19	17	12.23	13.51	ALC10A393EP063
	100V d.c. (115V surge)	680	22x30	355	266	1.27	1.55
1000		25x30	243	182	1.67	2.04	ALC10A102BB100
1200		22x40	203	152	1.88	2.30	ALC10A122AD100
1200		25x35	203	152	1.93	2.36	ALC10A122BC100
1500		30x40	163	122	2.30	2.81	ALC10A152CB100
1500		25x40	163	122	2.27	2.78	ALC10A152BD100
1800		30x35	137	103	2.64	3.23	ALC10A182CC100
2200		30x40	113	85	3.05	3.73	ALC10A222CD100
2700		35x35	92	69	3.57	4.37	ALC10A272DC100
2700		40x30	121	104	3.72	3.88	ALC10A272EB100
3300		30x50	76	57	4.05	4.95	ALC10A332CF100
3300		35x40	76	57	4.11	5.03	ALC10A332DD100
3300		40x35	106	92	4.09	4.24	ALC10A332EC100
3900		40x40	85	74	4.88	5.08	ALC10A392ED100
4700		35x50	55	41	5.23	6.40	ALC10A472DF100
4700		40x45	70	61	5.60	5.83	ALC10A472EE100
5600		40x50	59	51	6.41	6.68	ALC10A562EF100
6800		40x55	53	46	6.61	6.84	ALC10A682EG100
8200		40x60	44	39	7.36	7.61	ALC10A822EH100
12000		40x80	31	27	9.14	9.45	ALC10A123EL100
18000	40x105	19	17	11.34	12.61	ALC10A183EP100	
200V d.c. (230V surge)	220	22x30	727	509	0.89	1.23	ALC10A221AB200
	330	25x30	486	340	1.18	1.63	ALC10A331BB200
	330	22x40	486	340	1.21	1.67	ALC10A331AD200
	390	25x35	412	288	1.36	1.87	ALC10A391BC200
	470	30x30	343	240	1.58	2.18	ALC10A471CB200
	470	25x40	343	240	1.56	2.15	ALC10A471BD200
	560	30x35	288	202	1.82	2.51	ALC10A561CC200
	680	30x40	238	167	2.10	2.89	ALC10A681CD200
	820	35x35	198	139	2.43	3.35	ALC10A821DC200
	820	40x30	178	142	3.06	3.63	ALC10A821EB200
	1000	30x50	163	114	2.76	3.80	ALC10A102CF200
	1000	35x40	163	114	2.81	3.87	ALC10A102DD200
	1000	40x35	153	124	3.43	3.99	ALC10A102EC200
	1200	35x50	135	82	3.06	4.01	ALC10A122DF200
	1200	40x40	124	99	4.02	4.69	ALC10A122ED200
	1500	35x50	110	77	3.70	5.10	ALC10A152DF200
	1500	40x45	101	81	4.61	5.38	ALC10A152EE200
	1800	40x50	84	68	5.27	6.15	ALC10A182EF200
	2200	40x60	67	53	6.29	7.43	ALC10A222EH200
	3300	40x80	46	37	7.83	9.17	ALC10A332EL200
	4700	40x105	45	32	8.08	11.73	ALC10A472EP200
	5600	45x105	42	29	8.51	12.16	ALC10G562FP200
	8200	50x105	33	25	9.17	11.76	ALC10G822KP200

Ordering information

For details of ordering see pages 54 & 55.