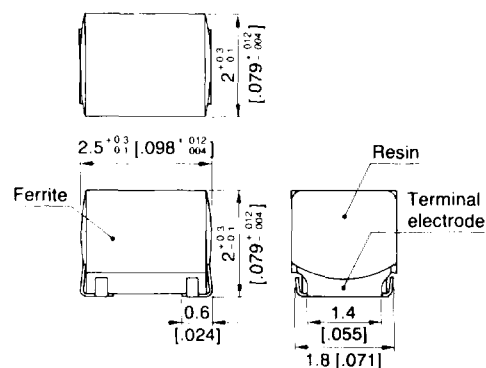


MAGNETIC SHIELDED FERRITE CHIP TYPE, ACL SERIES

CHARACTERISTICS

Operating temperature range	– 25 to +85°C [– 13 to +185°F] (including self-temperature rise, 20°C [36°F] max.)
Storage temperature range	– 40 to +85°C [– 40 to +185°F] Taping products: 0 to 60°C [32 to 140°F]
Rated current	Value obtained when current flows and the temperature has risen to 20°C [36°F] or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.
Moisture resistance characteristics	$\Delta L/L \leq \pm 5\%$ $\Delta Q/Q \leq \pm 30\%$
Resistance to soldering heat	260°C [500°F], 5 seconds
Resistance to solvent	Conform to MIL-STD-202E

ACL2520 TYPE



Dimensions in mm [inches]

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μ H)	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz) min.	DC resistance (Ω) max.	Rated*1 current (mA) max.
ACL2520L-10nM-[]*2	0.01 $\pm$ 20%	15	100	2100	0.19	725
ACL2520L-12nM-[]	0.012 $\pm$ 20%	15	100	2020	0.2	705
ACL2520L-15nM-[]	0.015 $\pm$ 20%	15	100	1850	0.23	655
ACL2520L-18nM-[]	0.018 $\pm$ 20%	15	100	1770	0.25	630
ACL2520L-22nM-[]	0.022 $\pm$ 20%	15	100	1560	0.28	595
ACL2520L-27nM-[]	0.027 $\pm$ 20%	15	100	1450	0.32	555
ACL2520L-33nM-[]	0.033 $\pm$ 20%	20	100	1290	0.34	540
ACL2520L-39nM-[]	0.039 $\pm$ 20%	20	100	1230	0.37	515
ACL2520L-47nM-[]	0.047 $\pm$ 20%	20	100	1080	0.4	500
ACL2520L-56nM-[]	0.056 $\pm$ 20%	20	100	980	0.46	465
ACL2520L-68nM-[]	0.068 $\pm$ 20%	20	100	890	0.52	435
ACL2520L-82nM-[]	0.082 $\pm$ 20%	20	100	840	0.59	410
ACL2520L-R10M-[]	0.1 $\pm$ 20%	20	100	770	0.62	400
ACL2520L-R12K-[]	0.12 $\pm$ 10%	25	25.2	670	0.29	585
ACL2520L-R15K-[]	0.15 $\pm$ 10%	25	25.2	600	0.32	555
ACL2520L-R18K-[]	0.18 $\pm$ 10%	25	25.2	510	0.43	480
ACL2520L-R22K-[]	0.22 $\pm$ 10%	30	25.2	470	0.46	465
ACL2520L-R27K-[]	0.27 $\pm$ 10%	30	25.2	410	0.53	430
ACL2520L-R33K-[]	0.33 $\pm$ 10%	35	25.2	350	0.58	415

*1 The rated current is for the smaller of the inductance change due to either temperature increase or DC current superposition.

*2 [] means packaging style. Please specify T (ϕ 178mm [7.008 inches] reel), TL (ϕ 330mm [12.992 inches] reel): Taping or B: Bulk.

Inductors

ACL2520 TYPE

ELECTRICAL CHARACTERISTICS

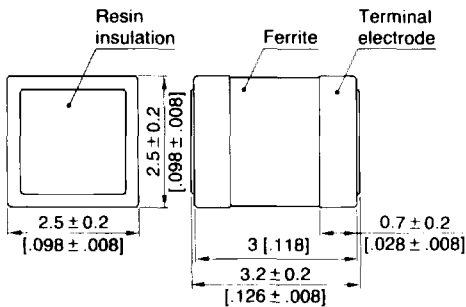
Part No.	Inductance (μ H)	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz) min.	DC resistance (Ω) max.	Rated ^{*1} current (mA) max.
ACL2520L-R39K-  *2	0.39 $\pm$ 10%	35	25.2	330	0.64	395
ACL2520L-R47K- 	0.47 $\pm$ 10%	40	25.2	310	0.68	380
ACL2520L-R56K- 	0.56 $\pm$ 10%	40	25.2	270	0.74	365
ACL2520S-R68K- 	0.68 $\pm$ 10%	40	25.2	195	0.8	350
ACL2520S-R82K- 	0.82 $\pm$ 10%	40	25.2	155	0.89	335
ACL2520S-1R0K- 	1 $\pm$ 10%	40	25.2	150	0.98	315
ACL2520S-1R2K- 	1.2 $\pm$ 10%	40	7.96	210	0.56	270
ACL2520S-1R5K- 	1.5 $\pm$ 10%	40	7.96	190	0.63	245
ACL2520S-1R8K- 	1.8 $\pm$ 10%	40	7.96	180	0.68	220
ACL2520S-2R2K- 	2.2 $\pm$ 10%	40	7.96	160	0.75	195
ACL2520S-2R7K- 	2.7 $\pm$ 10%	45	7.96	150	0.82	160
ACL2520S-3R3K- 	3.3 $\pm$ 10%	45	7.96	120	0.92	160
ACL2520S-3R9K- 	3.9 $\pm$ 10%	45	7.96	90	0.99	155
ACL2520S-4R7K- 	4.7 $\pm$ 10%	45	7.96	57	1.09	140
ACL2520S-5R6K- 	5.6 $\pm$ 10%	50	7.96	48	1.16	110
ACL2520S-6R8K- 	6.8 $\pm$ 10%	50	7.96	34	1.28	110
ACL2520S-8R2K- 	8.2 $\pm$ 10%	50	7.96	32	1.45	105
ACL2520S-100K- 	10 $\pm$ 10%	50	7.96	28	1.57	90
ACL2520L-120K- 	12 $\pm$ 10%	30	2.52	35	2.75	75
ACL2520L-150K- 	15 $\pm$ 10%	35	2.52	23	3.1	70
ACL2520L-180K- 	18 $\pm$ 10%	35	2.52	20	3.3	65
ACL2520L-220K- 	22 $\pm$ 10%	40	2.52	17	3.7	60
ACL2520L-270K- 	27 $\pm$ 10%	40	2.52	16	4.15	45
ACL2520L-330K- 	33 $\pm$ 10%	40	2.52	14	4.75	45
ACL2520L-390K- 	39 $\pm$ 10%	45	2.52	12.5	5.2	45
ACL2520L-470K- 	47 $\pm$ 10%	45	2.52	12	5.6	35
ACL2520L-560K- 	56 $\pm$ 10%	45	2.52	11.5	6.1	35
ACL2520L-680K- 	68 $\pm$ 10%	45	2.52	10	6.9	30
ACL2520L-820K- 	82 $\pm$ 10%	45	2.52	9.4	7.65	30
ACL2520L-101K- 	100 $\pm$ 10%	50	2.52	9.1	8.6	30

*1 The rated current is for the smaller of the inductance change due to either temperature increase or DC current superposition.

*2  means packaging style. Please specify T (ϕ 178mm [7.008 inches] reel), TL (ϕ 330mm [12.992 inches] reel); Taping or B: Bulk.

Inductors

ACL3225 TYPE



Dimensions in mm [inches]



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μ H)	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz) min.	DC resistance (Ω) max.	Rated ^{*1} current (mA) max.
ACL3225S-10nM- I ^{*2}	0.01 $\pm$ 20%	10	100	2000	0.19	725
ACL3225S-12nM- I	0.012 $\pm$ 20%	10	100	1750	0.2	705
ACL3225S-15nM- I	0.015 $\pm$ 20%	10	100	1550	0.23	655
ACL3225S-18nM- I	0.018 $\pm$ 20%	15	100	1450	0.25	630
ACL3225S-22nM- I	0.022 $\pm$ 20%	15	100	1300	0.28	595
ACL3225S-27nM- I	0.027 $\pm$ 20%	15	100	1150	0.3	575
ACL3225S-33nM- I	0.033 $\pm$ 20%	15	100	1040	0.34	540
ACL3225S-39nM- I	0.039 $\pm$ 20%	20	100	950	0.37	515
ACL3225S-47nM- I	0.047 $\pm$ 20%	20	100	850	0.41	490
ACL3225S-56nM- I	0.056 $\pm$ 20%	20	100	770	0.47	460
ACL3225S-68nM- I	0.068 $\pm$ 20%	20	100	740	0.5	445
ACL3225S-82nM- I	0.082 $\pm$ 20%	20	100	600	0.55	425
ACL3225S-R10M- I	0.1 $\pm$ 20%	30	100	510	0.64	395
ACL3225S-R12K- I	0.12 $\pm$ 10%	35	25.2	580	0.24	645
ACL3225S-R15K- I	0.15 $\pm$ 10%	35	25.2	470	0.26	620
ACL3225S-R18K- I	0.18 $\pm$ 10%	35	25.2	400	0.29	585
ACL3225S-R22K- I	0.22 $\pm$ 10%	40	25.2	340	0.33	550
ACL3225S-R27K- I	0.27 $\pm$ 10%	40	25.2	290	0.37	515
ACL3225S-R33K- I	0.33 $\pm$ 10%	40	25.2	250	0.39	505
ACL3225S-R39K- I	0.39 $\pm$ 10%	40	25.2	220	0.42	485
ACL3225S-R47K- I	0.47 $\pm$ 10%	50	25.2	200	0.46	465
ACL3225S-R56K- I	0.56 $\pm$ 10%	50	25.2	180	0.51	440
ACL3225S-R68K- I	0.68 $\pm$ 10%	50	25.2	155	0.55	425
ACL3225S-R82K- I	0.82 $\pm$ 10%	50	25.2	140	0.6	405
ACL3225S-1R0K- I	1 $\pm$ 10%	50	25.2	130	0.68	380
ACL3225S-1R2K- I	1.2 $\pm$ 10%	60	7.96	150	0.52	435
ACL3225S-1R5K- I	1.5 $\pm$ 10%	60	7.96	130	0.59	360
ACL3225S-1R8K- I	1.8 $\pm$ 10%	60	7.96	120	0.64	330
ACL3225S-2R2K- I	2.2 $\pm$ 10%	60	7.96	105	0.71	310
ACL3225S-2R7K- I	2.7 $\pm$ 10%	60	7.96	90	0.77	300
ACL3225S-3R3K- I	3.3 $\pm$ 10%	60	7.96	80	0.85	240
ACL3225S-3R9K- I	3.9 $\pm$ 10%	60	7.96	70	0.94	230
ACL3225S-4R7K- I	4.7 $\pm$ 10%	60	7.96	60	1	220
ACL3225S-5R6K- I	5.6 $\pm$ 10%	60	7.96	52	1.1	180
ACL3225S-6R8K- I	6.8 $\pm$ 10%	60	7.96	44	1.25	160
ACL3225S-8R2K- I	8.2 $\pm$ 10%	60	7.96	37	1.35	130
ACL3225S-100K- I	10 $\pm$ 10%	60	7.96	31	1.5	120
ACL3225S-120K- I	12 $\pm$ 10%	50	2.52	49	1.5	120
ACL3225S-150K- I	15 $\pm$ 10%	50	2.52	30	1.75	120
ACL3225S-180K- I	18 $\pm$ 10%	50	2.52	22	1.95	110
ACL3225S-220K- I	22 $\pm$ 10%	50	2.52	17	2.15	100
ACL3225S-270K- I	27 $\pm$ 10%	50	2.52	14.5	2.35	85

^{*1} The rated current is for the smaller of the inductance change due to either temperature increase or DC current superposition.

^{*2} **I** means packaging style. Please specify T (ϕ 178mm [7.008 inches] reel), TL (ϕ 330mm [12.992 inches] reel): Taping or B: Bulk.

Inductors

ACL3225 TYPE

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μ H)	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz) min.	DC resistance (Ω) max.	Rated ^{**} current (mA) max.
ACL3225S-330K- *2	33 $\pm$ 10%	50	2.52	12.5	2.65	85
ACL3225S-390K-	39 $\pm$ 10%	50	2.52	11.5	2.9	70
ACL3225S-470K-	47 $\pm$ 10%	50	2.52	10.5	3.15	65
ACL3225S-560K-	56 $\pm$ 10%	50	2.52	10	3.4	45
ACL3225S-680K-	68 $\pm$ 10%	50	2.52	9	3.8	55
ACL3225S-820K-	82 $\pm$ 10%	50	2.52	8.5	4.3	40
ACL3225S-101K-	100 $\pm$ 10%	50	2.52	7.8	4.7	40
ACL3225S-121M-	120 $\pm$ 20%	25	0.796	7.6	3.05	14
ACL3225S-151M-	150 $\pm$ 20%	25	0.796	6.8	3.5	13
ACL3225S-181M-	180 $\pm$ 20%	25	0.796	6.2	3.95	10
ACL3225S-221M-	220 $\pm$ 20%	25	0.796	5.6	4.2	10
ACL3225S-271M-	270 $\pm$ 20%	25	0.796	5.1	4.8	8.5
ACL3225S-331M-	330 $\pm$ 20%	25	0.796	4.6	5.55	8.5
ACL3225S-391M-	390 $\pm$ 20%	25	0.796	4.2	6	8
ACL3225S-471M-	470 $\pm$ 20%	25	0.796	3.7	6.7	8
ACL3225S-561M-	560 $\pm$ 20%	25	0.796	3.4	7.5	7.5
ACL3225S-681M-	680 $\pm$ 20%	25	0.796	3.1	8.35	6
ACL3225S-821M-	820 $\pm$ 20%	25	0.796	2.7	9.55	5.5
ACL3225S-102M-	1000 $\pm$ 20%	25	0.796	2.4	11	5

^{**} The rated current is for the smaller of the inductance change due to either temperature increase or DC current superposition.

^{**} | means packaging style. Please specify T (ϕ 178mm [7.008 inches] reel), TL (ϕ 330mm [12.992 inches] reel); Taping or B: Bulk.