

Type BLS, 125°C DC-Link Capacitors For Harsh Environments

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified



Type BLS DC Link capacitors use the most advanced construction and technology to meet the challenges of harsh environments with operating temperatures to 125°C. Tested for 2,000-hour at 85°C / 85% relative humidity with rated voltage applied (100% greater than competitive THB test life). The series is qualified to automotive-grade electrical and mechanical testing per standard AEC-Q200.

Highlights

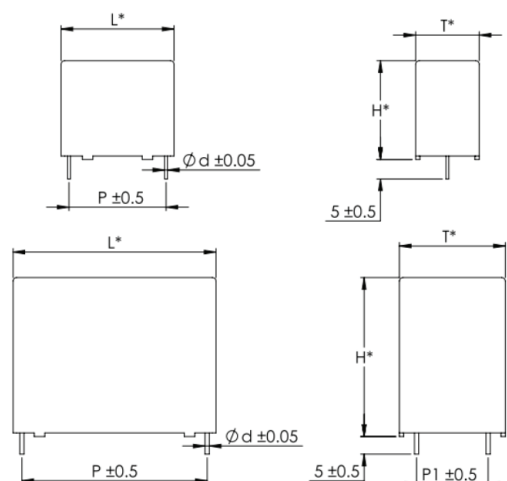
- High capacitance
- 125°C rated
- High ripple current
- Self-healing and low loss
- THB 85°C / 85% RH 2000 h at rated voltage

Specifications

Capacitance Range	1.0 to 220 µF
Capacitance Tolerance	±5% or ±10% at +25°C
Rated Voltage	450 to 1100 Vdc
Operating Temperature Range	–55°C to 125°C (85°C ~125°C, decreasing factor 1.25% per °C for Rated Voltage)
Dissipation factor	≤0.002 (0.2%) at 1KHz; C ≤20µF at 25°C ≤0.003 (0.3%) at 1KHz; C >20µF at 25°C ≤0.004 (0.4%) at 1KHz; C >80µF at 25°C
Insulation Resistance	RC between leads, IR xC≥30,000 s at 100vdc 1minute at +25°C
Test Voltage between Terminals U _{TT}	1.5 x V _R VDC for 10 seconds (between terminations) @ +25°C ±5°C
Test Voltage between Terminals & Case U _{TC}	3000VAC, 50/60Hz 60s (at+25+/-5°C)

Regulatory Information

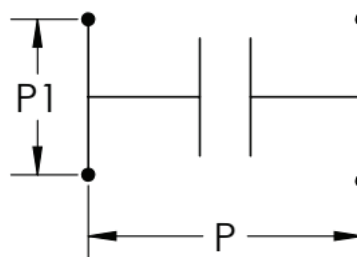
Dimensions



* ±0.8 for L ≤ 42.5mm
±1.0 for L = 57.5mm

Construction Details

Case Material	UL94V-0 Plastic Case
Resin Material	UL94V-0 Epoxy Fill
Terminal Material	Tin Copper Wires



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Part Numbering System

BLS	107	K	701	R51	4
Series	Capacitance	Tolerance	Voltage	Case	Leads
BLS	EIA Cap Code 305 = 3 μ F 226 = 22 μ F 107 = 100 μ F	K = $\pm$ 10% Standard J = $\pm$ 5% Optional	451 = 450 Vdc 601 = 600 Vdc 701 = 700 Vdc 901 = 900 Vdc 112 = 1100 Vdc	Case Code	2 = 2 Leads 4 = 4 Leads

Size and Code Table

Size	Dimension						Pitch		Ød	
Code	L	Tol. $\pm$	H	Tol. $\pm$	T	Tol. $\pm$	P	P1	4 Leads	2 Leads
H11	32	0.8	18	0.8	9	0.8	27.5	\	\	0.8
H20	32	0.8	20	0.8	11	0.8	27.5	\	\	0.8
H21	32	0.8	22	0.8	13	0.8	27.5	\	\	0.8
H22	32	0.8	24.5	0.8	13	0.8	27.5	\	\	0.8
H23	32	0.8	24	0.8	14	0.8	27.5	\	\	0.8
H24	32	0.8	28	0.8	14	0.8	27.5	\	\	0.8
H25	32	0.8	24.5	0.8	15	0.8	27.5	\	\	0.8
H26	32	0.8	30	0.8	16	0.8	27.5	\	\	0.8
H27	32	0.8	28	0.8	18	0.8	27.5	\	\	0.8
H28	32	0.8	33	0.8	18	0.8	27.5	\	\	0.8
H30	32	0.8	37	0.8	22	0.8	27.5	\	\	0.8
N24	42	1.0	28	1.0	17	1.0	37.5	\	\	1.0
N27	42	1.0	29	1.0	17	1.0	37.5	\	\	1.0
N26	42	1.0	32	1.0	19	1.0	37.5	\	\	1.0
N30	42	1.0	40	1.0	20	1.0	37.5	10.2	1.2	1.0
N31	42	1.0	37	1.0	22	1.0	37.5	10.2	1.2	1.0
N32	42	1.0	44	1.0	24	1.0	37.5	10.2	1.2	1.0
N33	42	1.0	37	1.0	28	1.0	37.5	10.2	1.2	1.0
N34	42	1.0	43	1.0	28	1.0	37.5	10.2	1.2	1.0
N40	42	1.0	45	1.0	30	1.0	37.5	20.3	1.2	1.0
N42	42	1.0	45	1.0	35	1.0	37.5	20.3	1.2	1.0
N41	42	1.0	50	1.0	35	1.0	37.5	20.3	1.2	1.0
N43	42	1.0	57	1.0	38	1.0	37.5	20.3	1.2	1.0
N50	42	1.0	55	1.0	40	1.0	37.5	20.3	1.2	1.0
N51	42	1.0	60	1.0	45	1.0	37.5	20.3	1.2	1.0
R30	57.5	1.0	45	1.0	25	1.0	52.5	10.2	1.2	1.2
R40	57.5	1.0	45	1.0	30	1.0	52.5	20.3	1.2	1.2
R41	57.5	1.0	50	1.0	35	1.0	52.5	20.3	1.2	1.2
R44	57.5	1.0	60	1.0	35	1.0	52.5	20.3	1.2	1.2
R42	57.5	1.0	65	1.0	35	1.0	52.5	20.3	1.2	1.2
R50	57.5	1.0	55	1.0	45	1.0	52.5	20.3	1.2	1.2
R51	57.5	1.0	65	1.0	45	1.0	52.5	20.3	1.2	1.2

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Ratings

Part Number	Cap (μF)	ESR _{Typ} 10 kHz (mΩ)	Thermal Res (°C/W)	I _{rms} 10 kHz, 70°C (A)	ESL _{Typ} (nH)	dv/dt (V/μs)	Peak Current (A)	Dimensions					
								L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
450 Vdc													
BLS335K451H112	3.3	22.1	41.7	4.7	12	65	215	32	18	9	27.5	\	0.8
BLS405K451H112	4	18.2	41.7	5.1	12	65	260	32	18	9	27.5	\	0.8
BLS505K451H202	5	14.6	35.7	6.2	14	65	325	32	20	11	27.5	\	0.8
BLS605K451H202	6	12.1	35.7	6.8	14	65	390	32	20	11	27.5	\	0.8
BLS705K451H212	7	10.4	33.3	7.6	15	65	455	32	22	13	27.5	\	0.8
BLS805K451H212	8	9.1	33.3	8.1	15	65	520	32	22	13	27.5	\	0.8
BLS106K451H222	10	7.3	31.3	9.4	16	65	650	32	24.5	13	27.5	\	0.8
BLS126K451H242	12	6.1	27.8	10.9	18	65	780	32	28	14	27.5	\	0.8
BLS136K451H242	13	5.6	27.8	11.3	18	65	845	32	28	14	27.5	\	0.8
BLS146K451H262	14	5.2	26.3	12.1	18	65	910	32	30	16	27.5	\	0.8
BLS156K451H272	15	5.2	23.8	12.7	19	65	975	32	28	18	27.5	\	0.8
BLS156K451H262	15	4.9	26.3	12.5	18	65	975	32	30	16	27.5	\	0.8
BLS166K451H272	16	4.6	23.8	13.6	19	65	1040	32	28	18	27.5	\	0.8
BLS186K451H282	18	4.3	21.7	14.6	21	65	1170	32	33	18	27.5	\	0.8
BLS206K451H282	20	3.9	21.7	15.4	21	65	1300	32	33	18	27.5	\	0.8
BLS206K451N242	20	8.4	20.0	10.9	12	35	700	42	28	17	37.5	\	1.0
BLS226K451H302	22	4.3	17.2	16.5	23	65	1430	32	37	22	27.5	\	0.8
BLS256K451H302	25	3.7	17.2	17.6	23	65	1625	32	37	22	27.5	\	0.8
BLS256K451N262	25	6.8	17.9	12.9	13	35	875	42	32	19	37.5	\	1.0
BLS286K451H302	28	3.3	17.2	18.6	23	65	1820	32	37	22	27.5	\	0.8
BLS306K451N314	30	5.6	14.3	15.8	14	35	1050	42	37	22	37.5	10.2	1.2
BLS356K451N314	35	4.8	14.3	17.0	14	35	1225	42	37	22	37.5	10.2	1.2
BLS406K451N314	40	4.2	14.3	18.2	14	35	1400	42	37	22	37.5	10.2	1.2
BLS406K451N304	40	4.2	13.9	18.5	14	35	1400	42	40	20	37.5	10.2	1.2
BLS506K451N334	50	3.4	12.2	22.0	15	35	1750	42	37	28	37.5	10.2	1.2
BLS556K451N324	55	3.1	12.2	23.1	15	35	1925	42	44	24	37.5	10.2	1.2
BLS606K451N344	60	2.8	11.8	24.6	16	35	2100	42	43	28	37.5	10.2	1.2
BLS656K451N404	65	2.6	10.0	27.7	16	35	2275	42	45	30	37.5	20.3	1.2
BLS706K451N404	70	2.4	10.0	28.8	16	35	2450	42	45	30	37.5	20.3	1.2
BLS806K451N424	80	2.1	9.1	32.3	17	35	2800	42	45	35	37.5	20.3	1.2
BLS806K451R304	80	4.9	9.1	21.2	14	20	1600	57.5	45	25	52.5	10.2	1.2
BLS906K451N414	90	2.1	8.3	33.5	17	35	3150	42	50	35	37.5	20.3	1.2
BLS107K451R404	100	3.9	8.0	25.3	15	20	2000	57.5	45	30	52.5	20.3	1.2
BLS117K451N504	110	2.1	7.7	35.2	18	35	3850	42	55	40	37.5	20.3	1.2
BLS117K451N434	110	2.1	7.7	35.2	18	35	3850	42	57	38	37.5	20.3	1.2
BLS127K451N504	120	1.9	7.7	36.8	18	35	4200	42	55	40	37.5	20.3	1.2
BLS137K451R414	130	3.0	6.9	31.1	17	20	2600	57.5	50	35	52.5	20.3	1.2
BLS147K451N514	140	1.6	7.1	41.2	20	35	4900	42	60	45	37.5	20.3	1.2
BLS167K451R444	160	2.4	6.1	36.8	18	20	3200	57.5	60	35	52.5	20.3	1.2
BLS177K451R504	170	2.5	6.1	36.5	18	20	3400	57.5	55	45	52.5	20.3	1.2

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Part Number	Cap (µF)	ESR _{typ} 10 kHz (mΩ)	Thermal Res (°C/W)	Irms 10 kHz, 70°C (A)	ESL _{typ} (nH)	dv/dt (V/µs)	Peak Current (A)	Dimensions					
								L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
450 Vdc													
BLS187K451R504	180	2.4	5.4	39.6	19	20	3600	57.5	55	45	52.5	20.3	1.2
BLS187K451R424	180	2.4	5.7	38.6	18	20	3600	57.5	65	35	52.5	20.3	1.2
BLS217K451R514	210	2.0	5.1	44.0	20	20	4200	57.5	65	45	52.5	20.3	1.2
BLS227K451R514	220	1.9	5.1	45.0	20	20	4400	57.5	65	45	52.5	20.3	1.2
600 Vdc													
BLS205K601H112	2	28.1	41.7	4.1	12	65	130	32	18	9	27.5	\	0.8
BLS305K601H202	3	18.7	35.7	5.5	14	65	195	32	20	11	27.5	\	0.8
BLS335K601H202	3.3	17.0	35.7	5.7	14	65	195	32	20	11	27.5	\	0.8
BLS405K601H202	4	14.0	35.7	6.3	14	65	260	32	20	11	27.5	\	0.8
BLS505K601H212	5	11.2	33.3	7.3	15	65	325	32	22	13	27.5	\	0.8
BLS605K601H222	6	9.4	31.3	8.3	16	65	390	32	24.5	13	27.5	\	0.8
BLS705K601H252	7	8.0	28.6	9.3	17	65	455	32	24.5	15	27.5	\	0.8
BLS705K601H242	7	8.0	27.8	9.5	17	65	520	32	28	14	27.5	\	0.8
BLS805K601H242	8	7.0	27.8	10.1	17	65	520	32	28	14	27.5	\	0.8
BLS905K601H262	9	6.2	26.3	11.0	18	65	585	32	30	16	27.5	\	0.8
BLS106K601H272	10	5.6	23.8	12.2	19	65	650	32	28	18	27.5	\	0.8
BLS116K601H282	11	5.1	21.7	13.4	21	65	715	32	33	18	27.5	\	0.8
BLS126K601H282	12	4.7	21.7	14.0	21	65	780	32	33	18	27.5	\	0.8
BLS156K601H302	15	4.8	17.2	15.5	23	65	975	32	37	22	27.5	\	0.8
BLS156K601N262	15	8.7	17.9	11.4	13	35	525	42	32	19	37.5	\	1.0
BLS186K601H302	18	4.0	17.2	17.0	23	65	1170	32	37	22	27.5	\	0.8
BLS226K601N304	22	5.9	13.9	15.6	14	35	770	42	40	20	37.5	10.2	1.2
BLS256K601N304	25	5.2	13.9	16.6	14	35	875	42	40	20	37.5	10.2	1.2
BLS306K601N334	30	4.3	12.2	19.4	15	35	1050	42	37	28	37.5	10.2	1.2
BLS336K601N324	33	4.0	12.2	20.4	15	35	1155	42	44	24	37.5	10.2	1.2
BLS406K601N404	40	3.3	10.0	24.8	16	35	1400	42	45	30	37.5	20.3	1.2
BLS456K601N424	45	2.9	9.1	27.6	17	35	1575	42	45	35	37.5	20.3	1.2
BLS456K601R304	45	6.7	9.1	18.1	14	20	900	57.5	45	25	52.5	10.2	1.2
BLS506K601N414	50	3.0	8.3	28.5	17	35	1750	42	50	35	37.5	20.3	1.2
BLS506K601R304	50	6.0	9.1	19.1	14	20	1000	57.5	45	25	52.5	10.2	1.2
BLS556K601R404	55	5.5	8.0	21.4	15	20	1100	57.5	45	30	52.5	20.3	1.2
BLS606K601N504	60	3.0	7.7	29.6	18	35	2100	42	55	40	37.5	20.3	1.2
BLS606K601R404	60	5.0	8.0	22.3	15	20	1200	57.5	45	30	52.5	20.3	1.2
BLS656K601R414	65	4.6	6.9	25.0	17	20	1300	57.5	50	35	52.5	20.3	1.2
BLS666K601N434	66	2.7	7.7	31.1	18	35	2100	42	57	38	37.5	20.3	1.2
BLS706K601N504	70	2.5	7.7	32.0	18	35	2450	42	55	40	37.5	20.3	1.2
BLS706K601R414	70	4.3	6.9	26.0	17	20	1400	57.5	50	35	52.5	20.3	1.2
BLS756K601N514	75	2.4	7.1	34.4	20	35	2625	42	60	45	37.5	20.3	1.2
BLS756K601R414	75	4.0	6.9	26.9	17	20	1500	57.5	50	35	52.5	20.3	1.2
BLS806K601N514	80	2.2	7.1	35.5	20	35	2800	42	60	45	37.5	20.3	1.2

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Part Number	Cap (µF)	ESR _{typ} 10 kHz (mΩ)	Thermal Res (°C/W)	I _{rms} 10 kHz, 70°C (A)	ESL _{typ} (nH)	dv/dt (V/µs)	Peak Current (A)	Dimensions					
								L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
600 Vdc													
BLS806K601R414	80	3.8	6.9	27.8	17	20	1600	57.5	50	35	52.5	20.3	1.2
BLS856K601N514	85	2.1	7.1	36.6	20	35	2975	42	60	45	37.5	20.3	1.2
BLS906K601R444	90	3.3	6.1	31.4	18	20	1800	57.5	60	35	52.5	20.3	1.2
BLS107K601R444	100	3.0	6.1	33.1	18	20	2000	57.5	60	35	52.5	20.3	1.2
BLS117K601R504	110	3.0	5.4	35.3	19	20	2200	57.5	55	45	52.5	20.3	1.2
BLS117K601R424	110	3.0	5.7	34.3	18	20	2200	57.5	65	35	52.5	20.3	1.2
BLS137K601R514	130	2.5	5.1	39.4	20	20	2600	57.5	65	45	52.5	20.3	1.2
700 Vdc													
BLS205K701H112	2	24.6	41.7	4.4	12	65	130	32	18	9	27.5	\	0.8
BLS275K701H202	2.7	18.2	35.7	5.5	14	65	195	32	20	11	27.5	\	0.8
BLS305K701H202	3	16.4	35.7	5.8	14	65	195	32	20	11	27.5	\	0.8
BLS405K701H222	4	12.3	31.3	7.2	16	65	260	32	24.5	13	27.5	\	0.8
BLS505K701H232	5	9.8	29.4	8.3	17	65	325	32	24	14	27.5	\	0.8
BLS505K701H252	5	9.8	28.6	8.4	17	65	325	32	24.5	15	27.5	\	0.8
BLS505K701H242	5	9.8	27.8	8.6	17	65	325	32	28	14	27.5	\	0.8
BLS605K701H262	6	8.2	26.3	9.6	18	65	390	32	30	16	27.5	\	0.8
BLS655K701H262	6.5	7.6	26.3	10.0	18	65	390	32	30	16	27.5	\	0.8
BLS705K701H262	7	7.0	26.3	10.4	18	65	455	32	30	16	27.5	\	0.8
BLS805K701H272	8	6.1	23.8	11.7	19	65	520	32	28	18	27.5	\	0.8
BLS855K701H282	8.5	5.8	21.7	12.6	21	65	585	32	33	18	27.5	\	0.8
BLS905K701H282	9	5.5	21.7	13.0	21	65	585	32	33	18	27.5	\	0.8
BLS106K701H282	10	4.9	21.7	13.7	21	65	650	32	33	18	27.5	\	0.8
BLS126K701H302	12	5.3	17.2	14.8	23	65	780	32	37	22	27.5	\	0.8
BLS146K701H302	14	4.5	17.2	16.0	23	65	910	32	37	22	27.5	\	0.8
BLS146K701N262	14	8.1	17.9	11.7	13	35	490	42	32	19	37.5	\	1.0
BLS156K701N304	15	7.6	13.9	13.8	14	35	525	42	40	20	37.5	10.2	1.2
BLS206K701N334	20	5.7	12.2	17.0	15	35	700	42	37	28	37.5	10.2	1.2
BLS226K701N334	22	5.2	12.2	17.8	15	35	770	42	37	28	37.5	10.2	1.2
BLS246K701N324	24	4.8	12.2	18.6	15	35	875	42	44	24	37.5	10.2	1.2
BLS256K701N344	25	4.6	11.8	19.3	16	35	875	42	43	28	37.5	10.2	1.2
BLS256K701N324	25	4.6	12.2	19.0	15	35	875	42	44	24	37.5	10.2	1.2
BLS306K701N404	30	3.8	10.0	22.9	16	35	1050	42	45	30	37.5	20.3	1.2
BLS306K701R304	30	8.8	9.1	15.8	14	20	600	57.5	45	25	52.5	10.2	1.2
BLS356K701N424	35	3.3	9.1	26.0	17	35	1225	42	45	35	37.5	20.3	1.2
BLS356K701R304	35	7.5	9.1	17.1	14	20	700	57.5	45	25	52.5	10.2	1.2
BLS406K701N414	40	3.2	8.3	27.2	17	35	1400	42	50	35	37.5	20.3	1.2
BLS406K701R404	40	6.6	8.0	19.5	15	20	800	57.5	45	30	52.5	20.3	1.2
BLS456K701N504	45	3.5	7.7	27.4	18	35	1575	42	55	40	37.5	20.3	1.2
BLS456K701R404	45	5.9	8.0	20.7	15	20	900	57.5	45	30	52.5	20.3	1.2
BLS506K701N504	50	3.1	7.7	28.9	18	35	1750	42	55	40	37.5	20.3	1.2

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

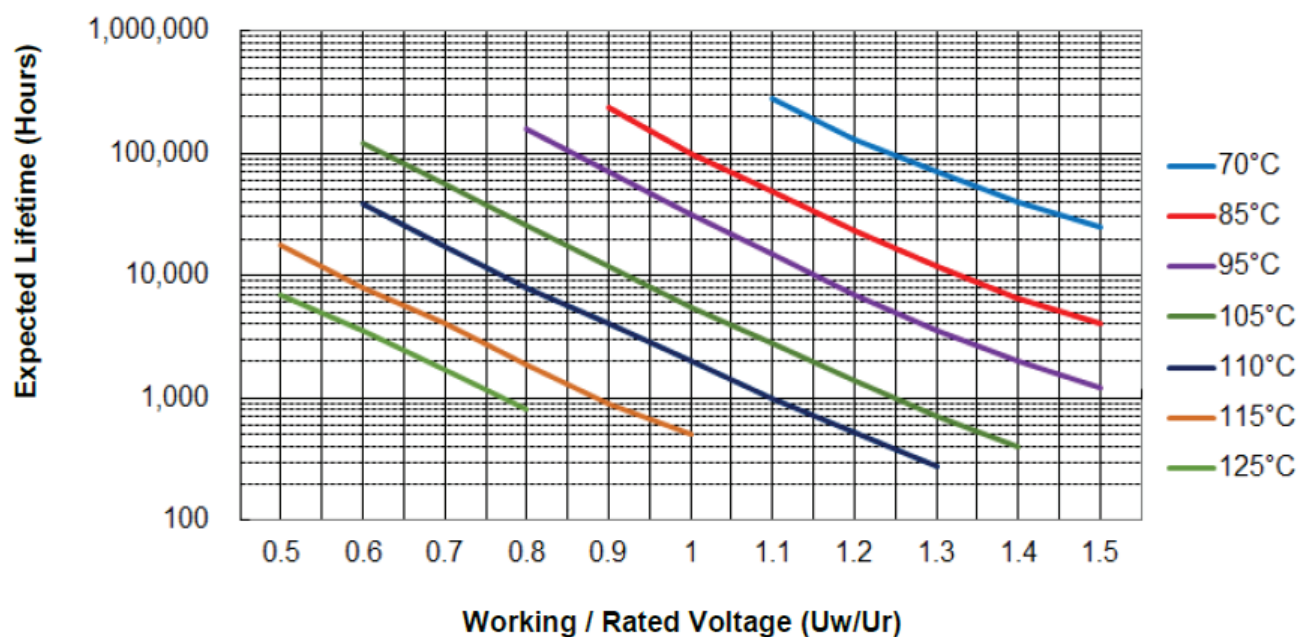
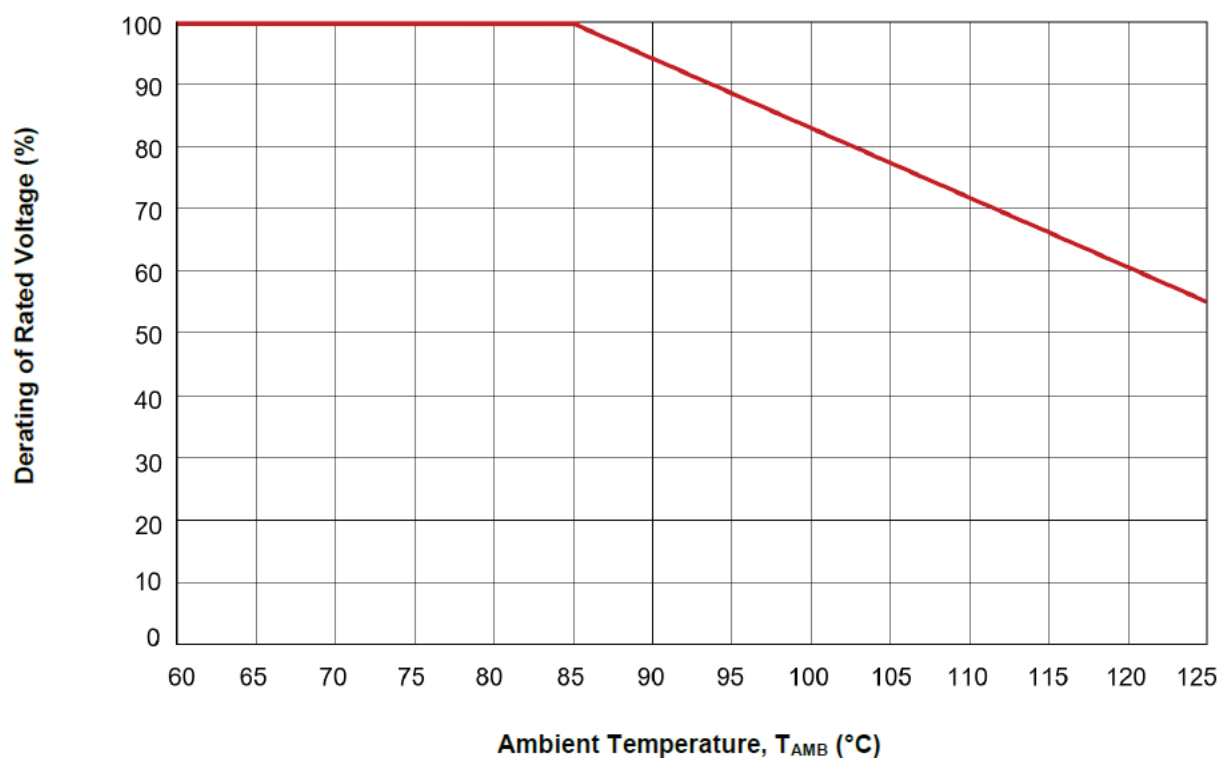
Part Number	Cap	ESR _{Typ} 10 kHz	Thermal Res	Irms 10 kHz, 70°C	ESL _{Typ}	dv/dt	Peak Current	Dimensions					
	(µF)	(mΩ)	(°C/W)	(A)	(nH)	(V/µs)	(A)	L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
700 Vdc													
BLS506K701R414	50	5.3	6.9	23.5	17	20	1000	57.5	50	35	52.5	20.3	1.2
BLS526K701N434	52	3.0	7.7	29.5	18	35	1925	42	57	38	37.5	20.3	1.2
BLS556K701N504	55	2.8	7.7	30.3	18	35	1925	42	55	40	37.5	20.3	1.2
BLS556K701R414	55	4.8	6.9	24.6	17	20	1100	57.5	50	35	52.5	20.3	1.2
BLS606K701N514	60	2.6	7.1	32.9	20	35	2100	42	60	45	37.5	20.3	1.2
BLS606K701R414	60	4.4	6.9	25.7	17	20	1200	57.5	50	35	52.5	20.3	1.2
BLS656K701N514	65	2.4	7.1	34.2	20	35	2275	42	60	45	37.5	20.3	1.2
BLS706K701R444	70	4.1	6.1	28.4	18	20	1400	57.5	60	35	52.5	20.3	1.2
BLS756K701R444	75	3.8	6.1	29.4	18	20	1500	57.5	60	35	52.5	20.3	1.2
BLS856K701R504	85	3.4	5.4	33.2	19	20	1760	57.5	55	45	52.5	20.3	1.2
BLS856K701R424	85	3.4	5.7	32.3	18	20	1700	57.5	65	35	52.5	20.3	1.2
BLS107K701R514	100	2.9	5.1	36.9	20	20	2000	57.5	65	45	52.5	20.3	1.2
BLS117K701R514	110	2.6	5.1	38.7	20	20	2200	57.5	65	45	52.5	20.3	1.2
900 Vdc													
BLS105K901H112	1	39.3	41.7	3.5	12	65	65	32	18	9	27.5	\	0.8
BLS185K901H202	1.8	21.9	35.7	5.1	14	65	117	32	20	11	27.5	\	0.8
BLS205K901H212	2	19.7	33.3	5.5	15	65	130	32	22	13	27.5	\	0.8
BLS225K901H212	2.2	17.9	33.3	5.8	15	65	143	32	22	13	27.5	\	0.8
BLS275K901H222	2.7	14.6	29.4	6.6	17	65	143	32	24.5	13	27.5	\	0.8
BLS305K901H232	3	13.1	29.4	7.2	17	65	195	32	24	14	27.5	\	0.8
BLS335K901H242	3.3	11.9	27.8	7.8	17	65	215	32	28	14	27.5	\	0.8
BLS405K901H262	4	9.8	26.3	8.8	18	65	260	32	30	16	27.5	\	0.8
BLS505K901H272	5	7.9	23.8	10.3	19	65	325	32	28	18	27.5	\	0.8
BLS555K901H282	5.5	7.2	21.7	11.3	21	65	390	32	33	18	27.5	\	0.8
BLS605K901H282	6	6.6	21.7	11.8	21	65	390	32	33	18	27.5	\	0.8
BLS705K901H302	7	7.2	17.2	12.7	23	65	455	32	37	22	27.5	\	0.8
BLS705K901N272	7	13.0	19.2	8.9	12	35	245	42	29	17	37.5	\	1.0
BLS805K901H302	8	6.3	17.2	13.5	23	65	520	32	37	22	27.5	\	0.8
BLS805K901N262	8	11.4	17.9	9.9	13	35	280	42	32	19	37.5	\	1.0
BLS126K901N314	12	7.6	14.3	13.6	14	35	420	42	37	22	37.5	10.2	1.2
BLS126K901N304	12	7.6	13.9	13.8	14	35	420	42	40	20	37.5	10.2	1.2
BLS146K901N314	14	6.5	14.3	14.7	14	35	490	42	37	22	37.5	10.2	1.2
BLS156K901N324	15	6.1	12.2	16.4	15	35	525	42	44	24	37.5	10.2	1.2
BLS166K901N344	16	5.7	11.8	17.3	16	35	560	42	43	28	37.5	10.2	1.2
BLS186K901N404	18	5.1	10.0	19.9	16	35	630	42	45	30	37.5	20.3	1.2
BLS206K901N404	20	4.6	10.0	20.9	16	35	700	42	45	30	37.5	20.3	1.2
BLS226K901N424	22	4.1	9.1	23.0	17	35	770	42	45	35	37.5	20.3	1.2
BLS256K901N414	25	4.1	8.3	24.1	17	35	875	42	50	35	37.5	20.3	1.2
BLS256K901R304	25	8.4	9.1	16.2	14	20	500	57.5	45	25	52.5	10.2	1.2
BLS306K901N504	30	4.1	7.7	25.0	18	35	1050	42	55	40	37.5	20.3	1.2

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Part Number	Cap (μF)	ESR _{typ} 10 kHz (mΩ)	Thermal Res (°C/W)	Irms 10 kHz, 70°C (A)	ESL _{typ} (nH)	dv/dt (V/μs)	Peak Current (A)	Dimensions					
								L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
900 Vdc													
BLS306K901R404	30	7.0	8.0	18.9	15	20	600	57.5	45	30	52.5	20.3	1.2
BLS336K901N434	33	3.8	7.7	26.3	18	35	1225	42	57	38	37.5	20.3	1.2
BLS356K901N504	35	3.6	7.7	27.0	18	35	1225	42	55	40	37.5	20.3	1.2
BLS356K901R404	35	6.0	8.0	20.4	15	20	700	57.5	45	30	52.5	20.3	1.2
BLS406K901N514	40	3.1	7.1	30.0	20	35	1400	42	60	45	37.5	20.3	1.2
BLS406K901R414	40	5.3	6.9	23.5	17	20	800	57.5	50	35	52.5	20.3	1.2
BLS456K901R444	45	4.7	6.1	26.5	18	20	900	57.5	60	35	52.5	20.3	1.2
BLS506K901R444	50	4.2	6.1	28.0	18	20	1000	57.5	60	35	52.5	20.3	1.2
BLS556K901R504	55	4.2	5.4	29.0	19	20	1140	57.5	55	45	52.5	20.3	1.2
BLS556K901R424	55	4.2	5.7	29.0	18	20	1100	57.5	65	35	52.5	20.3	1.2
BLS576K901R504	57	4.0	5.4	30.4	19	20	1140	57.5	55	45	52.5	20.3	1.2
BLS656K901R514	65	3.5	5.1	33.3	20	20	1300	57.5	65	45	52.5	20.3	1.2
BLS706K901R514	70	3.4	5.1	33.7	20	20	1400	57.5	65	45	52.5	20.3	1.2
1100 Vdc													
BLS105K112H202	1	27.3	35.7	4.5	14	65	65	32	20	11	27.5	\	0.8
BLS125K112H202	1.2	27.3	35.7	4.5	14	65	78	32	20	11	27.5	\	0.8
BLS155K112H212	1.5	21.9	33.3	5.2	15	65	98	32	22	13	27.5	\	0.8
BLS205K112H222	2	16.4	31.3	6.2	16	65	130	32	24.5	13	27.5	\	0.8
BLS225K112H242	2.2	14.9	27.8	7.0	17	65	143	32	28	14	27.5	\	0.8
BLS275K112H262	2.7	12.1	26.3	7.9	18	65	195	32	30	16	27.5	\	0.8
BLS305K112H262	3	10.9	26.3	8.3	18	65	195	32	30	16	27.5	\	0.8
BLS335K112H272	3.3	9.9	23.8	9.2	19	65	215	32	28	18	27.5	\	0.8
BLS375K112H282	3.7	8.9	21.7	10.2	21	65	260	32	33	18	27.5	\	0.8
BLS405K112H282	4	8.2	21.7	10.6	21	65	260	32	33	18	27.5	\	0.8
BLS455K112N272	4.5	16.9	19.2	7.8	12	35	158	42	29	17	37.5	\	1.0
BLS505K112H302	5	6.6	17.2	13.3	23	65	325	32	37	22	27.5	\	0.8
BLS555K112N262	5.5	13.8	17.9	9.0	13	35	193	42	32	19	37.5	\	1.0
BLS805K112N304	8	9.5	13.9	12.3	14	35	280	42	40	20	37.5	10.2	1.2
BLS106K112N334	10	7.6	12.2	14.7	15	35	350	42	37	28	37.5	10.2	1.2
BLS116K112N324	11	6.9	12.2	15.4	15	35	385	42	44	24	37.5	10.2	1.2
BLS126K112N344	12	6.3	11.8	16.4	16	35	420	42	43	28	37.5	10.2	1.2
BLS136K112N344	13	5.8	11.8	17.0	16	35	455	42	43	28	37.5	10.2	1.2
BLS146K112N404	14	5.4	10.0	19.2	16	35	490	42	45	30	37.5	20.3	1.2
BLS156K112N424	15	5.1	9.1	20.8	17	35	525	42	45	35	37.5	20.3	1.2
BLS156K112R304	15	11.7	9.1	13.7	14	20	300	57.5	45	25	52.5	10.2	1.2
BLS166K112N424	16	4.8	9.1	21.5	17	35	560	42	45	35	37.5	20.3	1.2
BLS176K112N414	17	5.1	8.3	21.7	17	35	630	42	50	35	37.5	20.3	1.2
BLS186K112N414	18	4.8	8.3	22.4	17	35	630	42	50	35	37.5	20.3	1.2
BLS206K112R404	20	8.8	8.0	16.9	15	20	400	57.5	45	30	52.5	20.3	1.2
BLS226K112N504	22	3.9	7.7	25.7	18	35	770	42	55	40	37.5	20.3	1.2

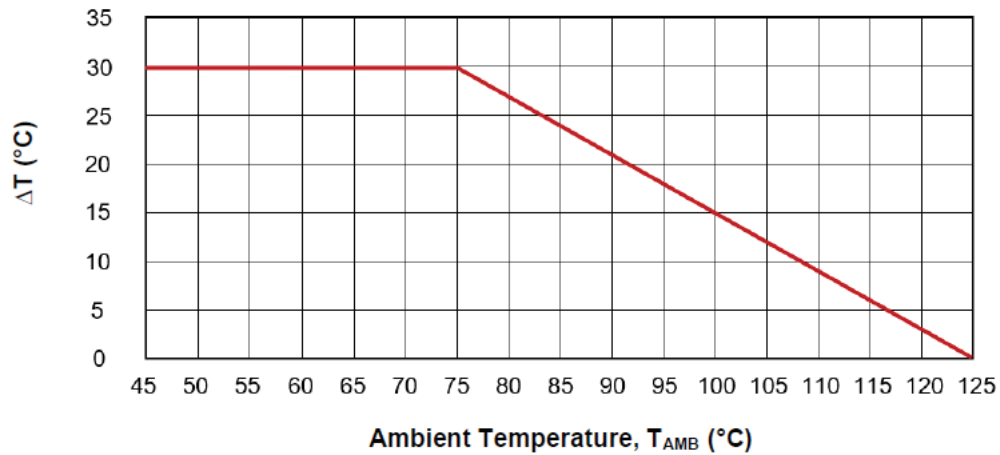
85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Part Number	Cap (μF)	ESR _{Typ} 10 kHz (mΩ)	Thermal Res (°C/W)	Irms 10 kHz, 70°C (A)	ESL _{Typ} (nH)	dv/dt (V/μs)	Peak Current (A)	Dimensions					
								L (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	Ød (mm)
								1100 Vdc					
BLS226K112N434	22	3.9	7.7	25.7	18	35	770	42	57	38	37.5	20.3	1.2
BLS236K112N504	23	3.8	7.7	26.3	18	35	805	42	55	40	37.5	20.3	1.2
BLS256K112R414	25	7.0	6.9	20.3	17	20	500	57.5	50	35	52.5	20.3	1.2
BLS306K112N514	30	2.9	7.1	31.2	20	35	1050	42	60	45	37.5	20.3	1.2
BLS336K112R444	33	5.3	6.1	24.9	18	20	660	57.5	60	35	52.5	20.3	1.2
BLS366K112R504	36	5.2	5.4	25.7	18	20	800	57.5	55	45	52.5	20.3	1.2
BLS386K112R424	38	5.0	5.7	26.4	18	20	760	57.5	65	35	52.5	20.3	1.2
BLS406K112R504	40	4.8	5.4	27.9	19	20	800	57.5	55	45	52.5	20.3	1.2
BLS456K112R514	45	4.2	5.1	30.3	20	20	900	57.5	65	45	52.5	20.3	1.2

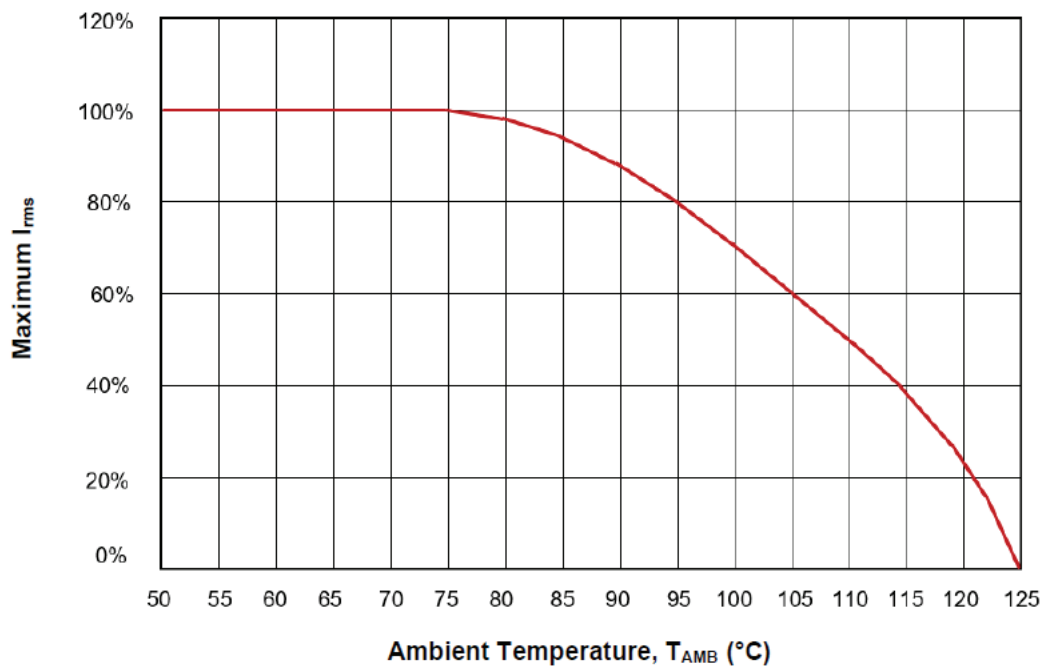
85°C / 85% RH , 2000h @ V_r , AEC-Q200 Qualified**Expected Life Curve at Hot Spot Temperature (T_{HS})****Derating of Rated Voltage Vs Ambient Temperature (T_{AMB})**

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

Maximum Over-Temperature (ΔT) Vs Ambient Temperature (T_{AMB})



Maximum I_{rms} VS Ambient Temperature (T_{AMB})



V_{OP} = Maximum operating Voltage

T_{HS} = Highest hot spot temperature in the capacitor

T_{AMB} = Highest ambient temperature surrounding the capacitor

85°C / 85% RH , 2000h @ Vr, AEC-Q200 Qualified

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