

BGM

+105°C Radial Lead Bi-Polar Aluminum Electrolytic Capacitors



For speaker networks and polarity reversing applications

FEATURES

- Excellent Frequency Stability
- Excellent Temperature Stability
- Capacitance Range: .47 μ F to 1,000 μ F
- Voltage Range: 6.3 WVDC to 100 WVDC
- Extended Life

SPECIFICATIONS

Capacitance Tolerance		$\pm 20\%$ at 120Hz, 20°C											
Operating Temperature Range		-40°C to +105°C											
Dissipation Factor 120Hz, 25°C	WVDC	6.3	10	16	25	35	50	63	100				
	$\tan \delta$.24	.2	.16	.16	.14	.12	.10	.09				
Leakage Current	WVDC	≤ 100 WVDC											
	Time	5 minutes											
		.03 CV or 3 μ A whichever is greater											
Load Life		1,000 hours at +105°C with rated WVDC reversing polarity every 250 hours											
		Capacitance change Dissipation factor Leakage current					$\leq 20\%$ of initial measured value $\leq 200\%$ of initial specified value $\leq 100\%$ initial specified value						
Shelf Life		1,000 hours at +85°C with no voltage applied. Units will meet load life specifications											
Ripple Current Multipliers		Frequency (Hz)					Temperature (°C)						
		Capacitance (μ F)	50	120	300	1K	10K	+85	+70				
		C<47	.75	1.0	1.35	1.57	2	1.0	1.4	1.65			
		47<C \leq 470	.8	1.0	1.23	1.34	1.5	1.0	1.4	1.65			
		C>470	.85	1.0	1.1	1.13	1.15	1.0	1.4	1.65			

SPECIAL ORDER OPTIONS

(See pages 37 thru 41)

- Special tolerances: $\pm 10\%$ (K), -10% + 30% (Q)
- Tape and Reel/Ammo-Pack
- Cut, Formed, Cut and Formed, and Snap In Leads

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+105°C Radial Lead
Bi-Polar Aluminum
Electrolytic Capacitors

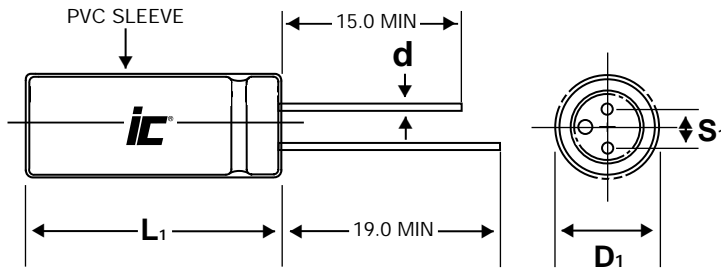
PHYSICAL DIMENSIONS

WVDC (SV) (μ F)	6.5 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)
0.47						5x11		5x11
1						5x11		5x11
2.2							5x11	6.3x11
3.3						5x11	6.3x11	8x11.5
4.7					5x11		6.3x11	8x11.5
10				5x11	6.3x11		8x11.5	10x12.5
22		5x11		6.3x11	8x11.5	10x12.5	10x16	10x20
33	5x11		6.3x11	8x11.5	10x12.5	10x16	10x20	12.5x20
47		6.3x11	8x11.5		10x12.5		10x20	12.5x25
100	8x11.5		10x12.5	10x16	10x20		12.5x25	16x25
220	10x12.5	10x16	10x20		12.5x25	16x25	16x31.5	
330	10x16	10x20	12.5x20	12.5x20	16x25	16x31.5		
470	10x20	12.5x20	12.5x25		16x25			
1000	12.5x25		16x25	16x31.5				

Convert to inches, divide by 25.4

DxL(mm)

Aluminum Electrolytic



D	5.0	6.3	8.0	10.0	12.5	16.0
S	2.0	2.5	3.5	5.0	5.0	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8
B	0.5	0.5	0.5	0.5	0.8	0.5

L₁=L+2.0 mm Max.
D₁=D+B Max.
S₁=S±0.5 mm Max.

NOTE: Case Vent is standard on all diameter ≥8.0mm

STANDARD PART LISTING

Capacitance (µF)	WVDC	ic [®] PART NUMBER	Maximum ESR Ω 120Hz, +25°C	Maximum RMS Ripple Current (mA) 120Hz, +105°C	Dimensions DxL (mm)
0.47	50	474BGM050M	423.284	8	5x11
0.47	100	474BGM100M	317.463	10	5x11
1	50	105BGM050M	198.944	12	5x11
1	100	105BGM100M	149.208	15	5x11
2.2	63	225BGM063M	75.357	19	5x11
2.2	100	225BGM100M	67.822	22	6.3x11
3.3	50	335BGM050M	60.286	22	5x11
3.3	63	335BGM063M	50.238	26	6.3x11
3.3	100	335BGM100M	45.214	32	8x11.5
4.7	35	475BGM035M	49.383	25	5x11
4.7	63	475BGM063M	35.274	31	6.3x11
4.7	100	475BGM100M	31.746	39	8x11.5
10	25	106BGM025M	26.526	34	5x11
10	35	106BGM035M	23.210	40	6.3x11
10	63	106BGM063M	16.579	53	8x11.5
10	100	106BGM100M	14.921	64	10x12.5
22	10	226BGM010M	15.071	42	5x11
22	25	226BGM025M	12.057	55	6.3x11
22	35	226BGM035M	10.550	68	8x11.5
22	50	226BGM050M	9.043	82	10x12.5
22	63	226BGM063M	7.536	96	10x16
22	100	226BGM100M	6.782	115	10x20
33	6.3	336BGM6R3M	12.057	46	5x11
33	16	336BGM016M	8.038	63	6.3x11
33	25	336BGM025M	8.038	79	8x11.5
33	35	336BGM035M	7.033	89	10x12.5
33	50	336BGM050M	6.029	105	10x16
33	63	336BGM063M	5.024	130	10x20
33	100	336BGM100M	4.521	165	12.5x20
47	10	476BGM010M	7.055	67	6.3x11

Capacitance (µF)	WVDC	ic [®] PART NUMBER	Maximum ESR Ω 120Hz, +25°C	Maximum RMS Ripple Current (mA) 120Hz, +105°C	Dimensions DxL (mm)
47	16	476BGM016M	5.644	89	8x11.5
47	35	476BGM035M	4.938	110	10x12.5
47	63	476BGM063M	3.527	155	10x20
47	100	476BGM100M	3.175	200	12.5x25
100	6.3	107BGM6R3M	3.979	105	8x11.5
100	16	107BGM016M	2.653	140	10x12.5
100	25	107BGM025M	2.653	165	10x16
100	35	107BGM035M	2.321	195	10x20
100	63	107BGM063M	1.658	275	12.5x25
100	100	107BGM100M	1.492	305	16x25
220	6.3	227BGM6R3M	1.809	165	10x12.5
220	10	227BGM010M	1.507	205	10x16
220	16	227BGM016M	1.206	280	10x20
220	35	227BGM035M	1.055	365	12.5x25
220	50	227BGM050M	0.904	440	16x25
220	63	227BGM063M	0.754	485	16x31.5
330	6.3	337BGM6R3M	1.206	230	10x16
330	10	337BGM010M	1.005	275	10x20
330	16	337BGM016M	0.804	345	12.5x20
330	25	337BGM025M	0.804	415	12.5x20
330	35	337BGM035M	0.703	490	16x25
330	50	337BGM050M	0.603	590	16x31.5
470	6.3	477BGM6R3M	0.847	300	10x20
470	10	477BGM010M	0.705	370	12.5x20
470	16	477BGM016M	0.564	460	12.5x25
470	35	477BGM035M	0.494	585	16x25
1000	6.3	108BGM6R3M	0.398	550	12.5x25
1000	16	108BGM016M	0.265	745	16x25
1000	25	108BGM025M	0.265	870	16x31.5