

# GAZ

**+ 105°C Low Impedance,  
Low Profile Surface  
Mount Chip Aluminum  
Electrolytic Capacitors**



## FEATURES

- *Wide Capacitance Range .1  $\mu$ F to 100  $\mu$ F*
- *Solvent Proof*
- *Low Impedance*
- *Low Profile*
- *Operating Voltage Range: 6.3 WVDC to 50 WVDC*
- *Extended Life*

## SPECIFICATIONS

<b>Capacitance Tolerance</b>		<b><math>\pm 20\%</math> at 120Hz, 20°C</b>						
<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>						
<b>Dissipation Factor 120Hz, 20°C (Max)</b>	<b>WVDC</b>	6.3	10	16	25	35	50	
	<b>tan <math>\delta</math></b>	.22	.20	.16	.14	.12	.12	
<b>Leakage current</b>	<b>Time</b>	2 minutes						
		.01 CV or 3 $\mu$ A, whichever is greater						
<b>Impedance (120Hz) Ratio at Low Temperature</b>	<b>-25°C/20°C</b>	2	2	2	2	2	2	
	<b>-40°C/20°C</b>	5	4	4	3	3	3	
<b>Load Life</b>	<b>1000 hours at 105°C with rated voltage</b>							
	Capacitance change Dissipation factor Leakage current	$\leq 25\%$ of initial measured values $\leq 200\%$ initial specified value $\leq 100\%$ Initial specified value						
<b>Shelf Life</b>	<b>1000 hours at 105°C with no applied voltage. Units will meet load specifications.</b>							
<b>Resistance to Soldering Heat</b>	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.							
	Capacitance change Dissipation factor Leakage current	$\leq 10\%$ of the initial measured value $\leq 100\%$ of specified value $\leq 100\%$ of specified value						

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## STANDARD PART LISTING

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Impedance Ω at 100Hz, +20°C	Maximum RMS Ripple Current (mA) at 100Hz, +105°C	Dimensions DxL (mm)
1	35	105GAZ035M	198.944	3.9	60	4x5.4
1	50	105GAZ050M	198.944	4.9	30	4x5.4
2.2	35	225GAZ035M	90.429	3.6	60	4x5.4
2.2	50	225GAZ050M	90.429	4.5	30	4x5.4
3.3	35	335GAZ035M	60.286	3	60	4x5.4
3.3	50	335GAZ050M	60.286	3.7	30	4x5.4
4.7	35	475GAZ035M	42.328	2.5	60	4x5.4
4.7	50	475GAZ050M	42.328	3.1	41	5x5.4
6.8	25	685GAZ025M	34.132	2.7	60	4x5.4
6.8	35	685GAZ035M	29.256	2.2	60	5x5.4
6.8	50	685GAZ050M	29.256	2.7	55	6.3x5.4
10	16	106GAZ016M	26.526	3.3	60	4x5.4

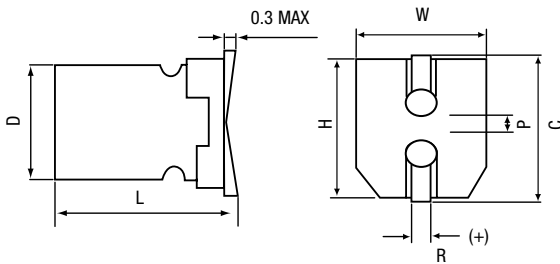
Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz, +20°C	Impedance Ω at 100Hz, +20°C	Maximum RMS Ripple Current (mA) at 100Hz, +105°C	Dimensions DxL (mm)
10	35	106GAZ035M	19.894	1.9	70	5x5.4
10	50	106GAZ050M	19.894	2.4	70	6.3x5.4
22	6.3	226GAZ6R3M	18.086	3.2	60	4x5.4
22	16	226GAZ016M	12.057	1.8	85	5x5.4
22	35	226GAZ035M	9.043	1	120	6.3x5.4
33	10	336GAZ010M	10.048	1.7	75	5x5.4
33	25	336GAZ025M	7.033	1	140	6.3x5.4
47	6.3	476GAZ6R3M	8.466	2	80	5x5.4
47	16	476GAZ016M	5.644	1.1	140	6.3x5.4
68	10	686GAZ010M	4.876	1.1	130	6.3x5.4
100	10	107GAZ010M	3.316	.9	150	6.3x5.4

## PHYSICAL DIMENSIONS

WVDC (SV) / Capacitance (μF)	6.3 (7.9)	10 (16)	16 (20)	25 (32)	35 (44)	50 (63)
1					4x5.4	4x5.4
2.2					4x5.4	4x5.4
3.3					4x5.4	4x5.4
4.7					4x5.4	5x5.4
6.8				4x5.4	5x5.4	6.3x5.4
10			4x5.4		5x5.4	6.3x5.4
22	4x5.4		5x5.4		6.3x5.4	
33		5x5.4		6.3x5.4		
47	5x5.4		6.3x5.4			
68		6.3x5.4				
100		6.3x5.4				

(mm)

## DIMENSIONS



D+0.5 MAX	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4 +0.1/-0.2	4.3	4.3	5.0	0.5~0.8	1.0
5	5.4 +0.1/-0.2	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.4 +0.1/-0.2	6.6	6.6	7.3	0.5~0.8	2.2

(mm)