WGD-SH5 Series

Radial Aluminum Electrolytic Capacitor

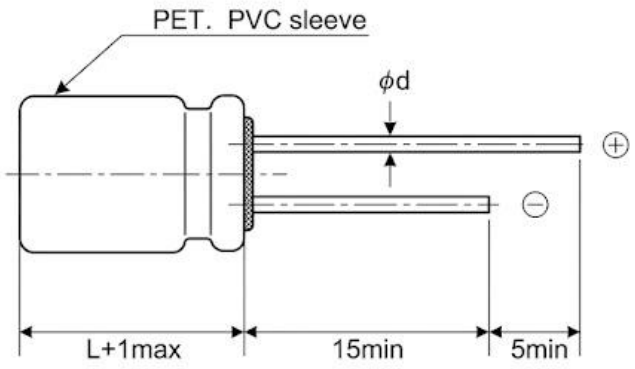
5mm Height Miniature Size

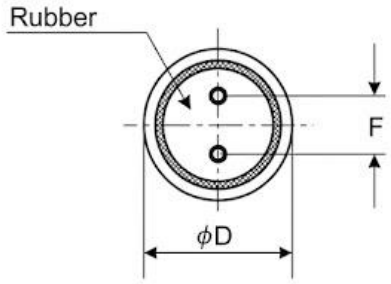
FEATURES

- Wide temperature range, life time: 1000 Hours at 105℃
- Small size, miniaturized 5mm height, large capacity
- Used in automatic office machines, pocket calculators, car stereos and mini-audio sets, VCR, camera, CD-ROM, notebook etc.
- Variety of packing: Bulk, Ammo

DRAWING and DIMENSIONS (mm)

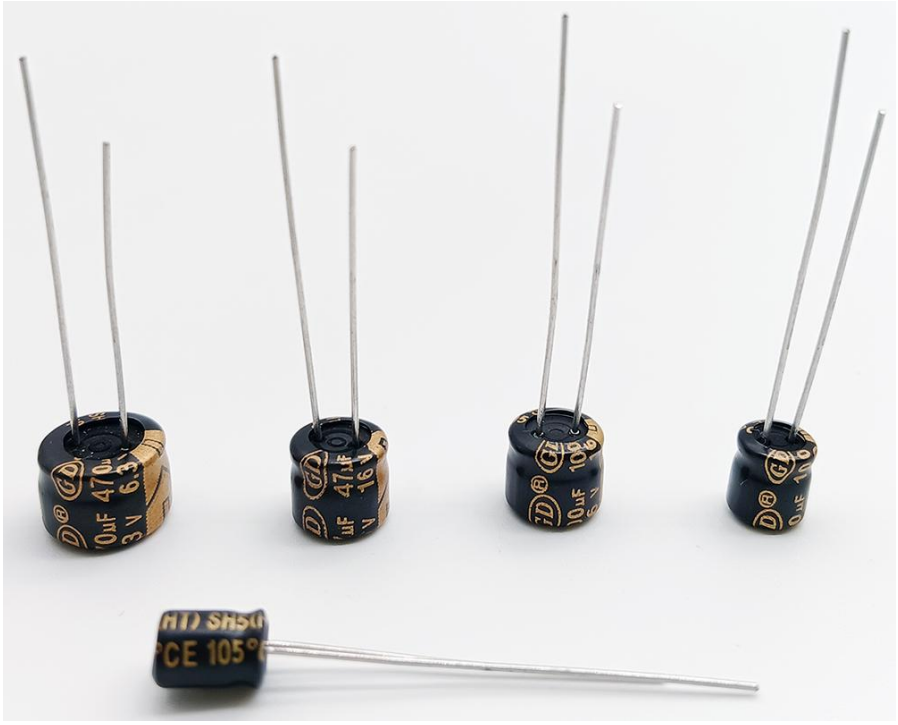
Unit(mm)





DØ(+0.5max)	3	4	5	6.3	8
F(±0.5)	1.0	1.5	2.0	2.5	3.5
d(±0.05)	0.4	0.45	0.45	0.45	0.45

PICTURE



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SPECIFICATIONS

No	Item	Performance
1	Operating Temperature Range	-40 to +105℃
2	Rated Working Voltage Range	4V-50V.DC
3	Capacitance Tolerance	0.1-470μF
4	Capacitance Tolerance	±20%(at+20℃,120Hz)
5	Leakage Current	After 2 minutes application of rated voltage I≤0.01CV or 3 μA minimum at 20℃
6	Dissipation Factor(tanδ) (120Hz\+20℃)	Working Voltage (V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 tanδ max.: 0.35 / 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10
7	Characteristics at low temperature (Impedance ratio at 120Hz)	Working Voltage (V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 Z-25℃/+20℃: 7 / 6 / 4 / 4 / 3 / 2 / 2 Z-40℃/+20℃: 15 / 12 / 10 / 8 / 6 / 4 / 3
8	High Temperature Loading	After 1000hrs. application of DC rated working voltage at +105℃, The capacitor shall meet the following limits: Post test requirements at + 20℃ Leakage current: ≤ the Initial specified value Capacitance change: ≤±25% of initial measured value Dissipation Factor(tanδ): ≤200% of initial specified value
9	Shelf Life	After 1000hrs. Application of DC no rated working voltage at +105℃,The capacitor shall meet the following limits: Post test requirements at + 20℃ Leakage current: ≤200% of initial specified value Capacitance change: ≤±25% of initial measured value Dissipation Factor(tanδ): ≤200% of initial specified value

Temperature Coefficient

Coefficient \ Temperature(℃)	105	85	≤65
Coefficient	1.0	1.7	2.1

Multiplier for ripple current, Frequency Coefficient

Frequency / μF	60（50）Hz	120 Hz	400Hz	1K Hz	≥10K Hz
0.1～47	0.80	1.00	1.20	1.30	1.50
68～470	0.80	1.00	1.10	1.15	1.20

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

W.V.(SV) / μF	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1													3×5 4×5	1.0 1.0
0.22													3×5 4×5	2.0 2.0
0.33													3×5 4×5	2.5 2.5
0.47													3×5 4×5	4.0 4.0
1													3×5 4×5	6 8
2.2											3×5 4×5	8 9	3×5 4×5	8 11
3.3											4×5	11	4×5	13
4.7									4×5 5×5	12 13	4×5	15	5×5	18
10							4×5	17	5×5	22	5×5	24	6.3×5	28
22	4×5	20	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	44	8×5	45
33	5×5	28	5×5	30	5×5	33	6.3×5	40	6.3×5	45	8×5	50	8×5	60
47	5×5	35	5×5	36	6.3×5	46	6.3×5	50	8×5	60	8×5	70		
100	6.3×5	55	6.3×5	57	6.3×5	60	8×5	80	8×5	110				
220	6.3×5	65	8×5	90	8×5	120								
330	8×5	120	8×5	130										
470	8×5	170												

Case Size: ØD×L (mm); Ripple Current (mAr.m.s) at 105℃ 120KHz

Note: Other capacitance is available on request. WEET is capable of doing custom service for you.

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PN STRUCTURE:

100uF 25V ±20% 8x5mm P:3.5mm Bulk RoHS
PN: WGDSH51E101M00800050035000BR

WGD-SH5	1E	101	M	00800050	035	000	B	R
Series	Rated Voltage 1.	Capacitance 2.	Capacitance Tolerance 3.	Dimension 4.	Pitch 5.	Lead Length 6.	Packing 7.	Pb 8.

1. Rated Voltage

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A	2B
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V	100V	120V
Code	**2C**	**2K**	**2D**	**2E**	**2F**	**2U**	**2V**	**2G**	**2X**	**2W**	**2H**	**2Y**
Voltage	160V	180V	200V	250V	315V	330V	350V	400V	420V	450V	500V	550V

2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	00500110	00630120	01300200	03500450
Dimension (mm)	5x11	6.3×112	13×20	35×45

5. Pitch

Code	020	075	100	127
Pitch (mm)	2.0	7.5	10	12.7

6. Lead Length

Code	000	040	045	050
Lead Length	Standard	4.0	4.5	5.0

7. Packing

Code	B	A
Packing	Bulk	Ammo

8. Pb

Code	L	R
Pb	Leaded	RoHS

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