

JIEJIE MICROELECTRONICS CO., Ltd

J5GxxxM3SF Gas Discharge Tube

Rev.1.1

FEATURE

- → Eliminates small size design EIA 7.6×5.0×5.0mm.
- → Current handling capability 5,000A@8/20µs.
- ♦ Low capacitance and insertion loss.
- → Fast response and long service life.
- Reliable to protect electrostatic surge.
- ♦ Moisture sensitivity level: Level 1.



Exterior



Schematic symbol

APPLICATION INFORMATION

- ♦ Repeaters, modems.
- → Telephone interface, line cards.
- ♦ Data communication equipment.

ELECTRICAL CHARACTERISTICS

Part number		Tolerance		Impulse discharge	Insulation resistance		Co
	voltage 100V/s(V)	of V _S	voltage 1KV/µs(V)	current 8/20µs(A)	GΩ	DC(V)	(1MHz)
J5G091M3SF	90	±20%	≤700	5000	≥1	50	≤1pF
J5G151M3SF	150	±20%	≤750	5000	≥1	50	≤1pF
J5G231M3SF	230	±20%	≤850	5000	≥1	100	≤1pF
J5G421M3SF	420	±20%	≤1050	5000	≥1	250	≤1pF
J5G471M3SF	470	±20%	≤1100	5000	≥1	250	≤1pF

- 1. The parameters of all tested by ITU-T K12.
- 2. Total Impulse discharge current 5,000A@ 8/20µs by IEC 61000-4-5, 10 shots.
- 3. The capacitance is tested by 1MHz@DC=0.5V.
- 4. The V-T waveform of DCBV and IPBV mus lie between the shades.

PART NUMBERING SYSTEM

<u>J5G</u> <u>091</u> <u>M</u> <u>3S</u> <u>F</u> (1) (2) (3) (4) (5)

(1)JieJie 5KA gas discharge tube

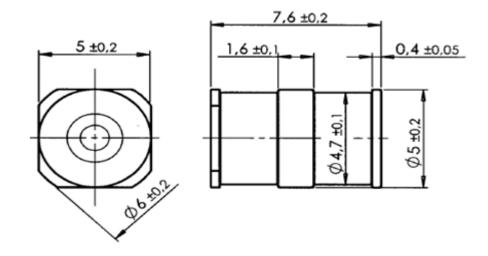
(2) DC breakdown voltage, e.g., $91=9\times10^1=90\text{V}$

(3) Tolerance is DC breakdown voltage, M=+-20%, N=+-30%

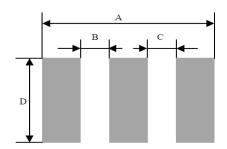
(4) 3-electrod SMD

(5) Dimension in $7.6 \times 5.0 \times 5.0$ (mm)

PRODUCT DIMENSIONS (unit: mm)



RECOMMENDED SOLDERING PAD

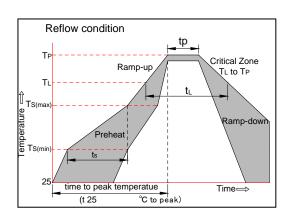


REF	mm	inch
A	9.6	0.378
В	1.5	0.059
С	1.5	0.059
D	5.0	0.197

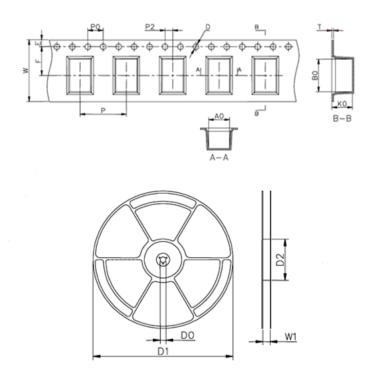


REFLOW PROFILE

Reflow Condition		Pb-Free assembly (see figure at right)	
Pre Heat	-Temperature Min (T _{s(min)})	+150°C	
	-Temperature Max(T _{s(max)})	+200 ℃	
	-Time (Min to Max) (ts)	60-180 secs.	
Average ramp up rate (Liquidus Temp (T _L)to peak)		3°C/sec. Max	
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max	
Reflow	-Temperature(T _L)(Liquidus)	+217 ℃	
	-Temperature(t _L)	60-150 secs.	
Peak Temp (T _p)		+260(+0/-5)°C	
Time within 5℃of actual Peak Temp (t _p)		~10 secs.	
Ramp-down Rate		6°C/sec. Max	
Time 25°C to Peak Temp (T _P)		8 min. Max	
Do not exceed		+260 ℃	



PACKAGE REEL INFORMATION



Symbol	Millimeters	Inches	
w	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
В0	8.4±0.1	0.331±0.004	
K0	5.3±0.1	0.209±0.004	
Р	12±0.1	0.472±0.004	
F	7.5±0.1	0.295±0.004	
E	1.75±0.1	0.069±0.004	
D	1.5+0.1/-0.0	0.059+0.004/-0.0	
P0	4±0.1	0.157±0.004	
P2	2±0.1	0.079±0.004	
Т	0.4±0.1	0.016±0.004	
D0	13.3±0.15	0.524±0.006	
D1	330±2	12.992±0.079	
D2	100+1/-2	3.937+0.039/-0.079	
W1	16.5±0.4	0.65±0.016	

PACKAGING



Part No.	Reel Quantity (pcs)	Per Carton (pcs)
J5GxxxM3SF	1,000	20,000

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