



J20GxxxM3LK Gas Discharge Tube

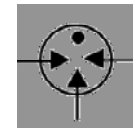
Rev.1.3

FEATURE

Eliminates small size design EIA 10.0×8.0mm
 Moisture sensitivity level: Level 1.



Exterior



Schematic symbol

APPLICATION INFORMATION

Repeaters, modems.

ReTe á ° n A A ns r ° tivn r â nvmons—

ELECTRICAL CHARACTERISTICS

Part number	DC breakdown voltage 100V/s(V)	Tolerance of V_s	Impulse spark-over voltage 1KV/ μ s(V)	Impulse discharge current 8/20 μ s(kA)	Insulation resistance		C_o (1MHz)
					G	DC(V)	
J20G091M3LK	90	$\pm 20\%$	700	20	1	50	1.5pF
J20G231M3LK	230	$\pm 20\%$	900	20	1	50	1.5pF
J20G471M3LK	470	$\pm 20\%$	1100	20	1	100	1.5pF

1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 20kA@ 8/20 μ s by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.

PART NUMBERING SYSTEM

J20G 091 M 3L K

(1) (2) (3) (4) (5)

(1) JieJie 20kA gas discharge tube

(2) DC breakdown voltage, e.g., 091=9×10¹=90V

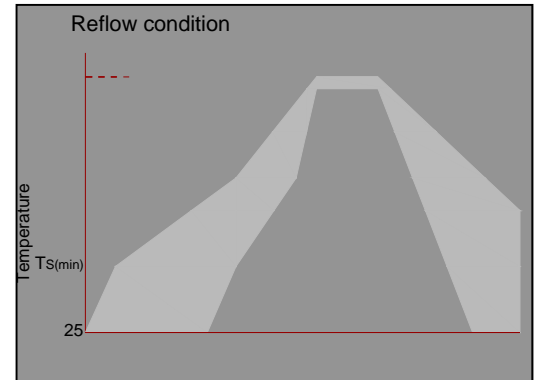
(3) Tolerance is DC breakdown voltage, M=+-20%, N=+-30%

(4) 3-electrod DIP

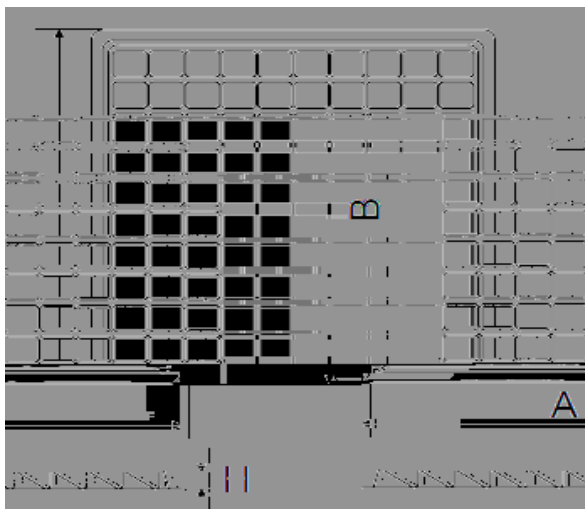
(5) Dimension in 13.

REFLOW PROFILE

Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150
	-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 /sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T_L)(Liquidus)	+217
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)
Time within 5 of actual Peak Temp (t_p)		~10 secs.
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp (T_p)		8 min. Max
Do not exceed		+260



PACKAGE BOX INFORMATION



Symbol	Dimension(mm)	
	Spec.	Tolerance
A	217.0	±1.0
B	207.0	±1.0
H	10.3	±0.2

