Electron Gun

Model No. NJK2211M

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New Japan Radio Co., Ltd.
Microwave Division

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■ GENERAL DESCRIPTION
NJK2211M is an electron gun includes the Ir coated dispenser cathode and indirect type heater for getting electron emission. This electron gun is also containing a grid electrode.

■ CATHODE SPECIFICATIONS
Cathode type: Ir coated dispenser cathode
Cathode diameter: 6.3 mm / Area: 0.32 cm²
Current density: 10 A/cm²
Heater voltage: 6.3 V
Heater current: 2.0 A (maximum)
Half angle: 34°
Cathode voltage (DC): 15kV typical (at environmental temperature range: -5 to 60 °C) (Note1 and 2)

■ NOTES
Note1 In order to avoid arcing at 15 kV the user must use silicone potting. The suggested silicone potting material should have a thermal expansion less than 9exp.-4/degree and more than 17kV/mm of dielectric breakdown. The potting must be exhausted to remove any air bubbles or voids in the silicone.
Note2 Please maintain the insulation space between the input terminals and the chassis to avoid any high voltage break down.

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Dimensions are expressed in “mm”.

Reference No.: PDS-NJK2211M
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