

**specification < 2M266E-03U\*\* / Water Cooling >**

**Product Specification**

This Specifications is based on the General Rules of Inspection for Electron Tubes ED-1101 and the Testing Methods for Continuous Wave Magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

**Absolute Maximum Rating**

| Description                          |      | Continuous Wave Magnetron (Fixed Frequency, Packaged Magnet and Probe Output) |              |    |     |      |            |     |                      |                 |                  |         |
|--------------------------------------|------|---|--------------|----|-----|------|------------|-----|----------------------|-----------------|------------------|---------|
| Outline                              |      | See the Outline Drawing   |              |    |     |      | Net Weight |     | Approximately 2.6 kg |                 |                  |         |
| Absolute Maximum Rating              | Item | Ef Quantity   | Ef Operation | tk | ebm | lb   | ibm        | Pi  | $\sigma_L$           | Tp <sup>③</sup> | Tc <sup>②</sup>  | storage |
|                                      | Unit | V   | V            | s  | kV  | mAdc | A          | kW  | —                    | °C              | °C               | °C      |
|                                      | Max. | 4.4   | ②            | —  | 5.5 | 900  | 3.1        | 4.7 | 2                    | 180             | 120 <sup>④</sup> | 60      |
| Min.                                 | 3.8  | ②   | 5            | —  | —   | —    | —          | —   | —                    | —               | -30              |         |
| Standard Test Condition <sup>①</sup> |      | 4.0   | 2.2          | 8  | —   | 840  | —          | —   | 1.1 MAX              | —               | —                | —       |

**Test Specification**

| Test Item <sup>②</sup>   | Test Method ED-1501 | Test Condition <sup>①</sup> | Symbol          | Nominal                     | Limit |      | Unit       |
|--------------------------|---------------------|-----------------------------|-----------------|-----------------------------|-------|------|------------|
|                          |                     |                             |                 |                             | Min.  | Max. |            |
| *Filament Current        | 4.1.1               | tk=120                      | If              | 22                          | 20    | 24   | A          |
| Peak Anode Voltage       | 4.3.1               | ⑤                           | ebm             | 5.10                        | 4.90  | 5.30 | kV         |
| Average Output Power (1) | 4.3.3.1             | ⑤                           | Po(1)           | 3000                        | 2700  | —    | W          |
| Frequency                | 4.3.4               | ⑤                           | f               | 2455                        | 2440  | 2470 | MHz        |
| *Stability Moding (1)    | 4.3.11.2            | $\sigma_L=2, t=60s$         | ST              | No Moding                   |       | —    | —          |
| Emission Moding (2)      | 4.3.11.3            | Ef=1.7, t $\leq$ 5s         | Efm             | No Moding                   |       | —    | —          |
| Insulation               | 4.2                 | 1kVdc                       | Rpf             | —                           | 1000  | —    | M $\Omega$ |
| Breakdown Voltage        | 4.2                 | 7.1kVac or 10kVdc, t=60s    | V <sub>BV</sub> | No Abnormality <sup>⑥</sup> |       | —    | —          |

**Outline Drawing**

Unit : mm

