

Toshiba**TECHNICAL DATA**

M4545

The Toshiba M4545 is a fixed frequency continuous wave magnetron, designed to operate on an unsmoothed D.C. anode supply, in the 2420 to 2480MHz frequency range with an average power output of 760 watts. The tube is required forced air cooling, and integral magnet type. The output fitting is designed for coupling to the rectangular waveguide.

The Input is covered with the shield case for protecting from dangerous of high voltage.

The tube is intended for use in microwave heating and cooking application.

GENERAL DATA**Electrical;**

Frequency	2450 $\pm$ 30	MHz
Filament voltage	3	V
Filament current	13	A
Cathode preheating time	8	sec
Cold heater resistance	0.03	

Mechanical;

Physical dimensions	See outline drawing
Base and electrical connection	See outline drawing
Mounting position	Any
RF coupling	See attached drawing
Magnetic field	Integral
Cooling	Forced air
Net weight	3.0 kg approx.
Type of cathode	Thoriated tungsten direct heating

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MAXIMUM RATINGS

	Minimum	Maximum	
Filament voltage (preheat)	2.85	3.15	V
Cathode preheating time	5	-	sec
Peak anode voltage	-	4.5	kV
Average anode current	-	350	mAdc
Anode power input	-	1400	W
Load VSWR	-	4	
Anode temperature (see outline drawing measuring point)	-	100	°C

TYPICAL OPERATION

Unsmoothed fullwave rectified

Frequency	2450	MHz
Filament voltage (operation)	3	V
Peak anode voltage	4	kV
Average anode current	300	mAdc
Power output (matched load)	760	W
Magnetic field intensity	1500	Gauss
Cooling quantity anode (forced air)	1500	l/min.

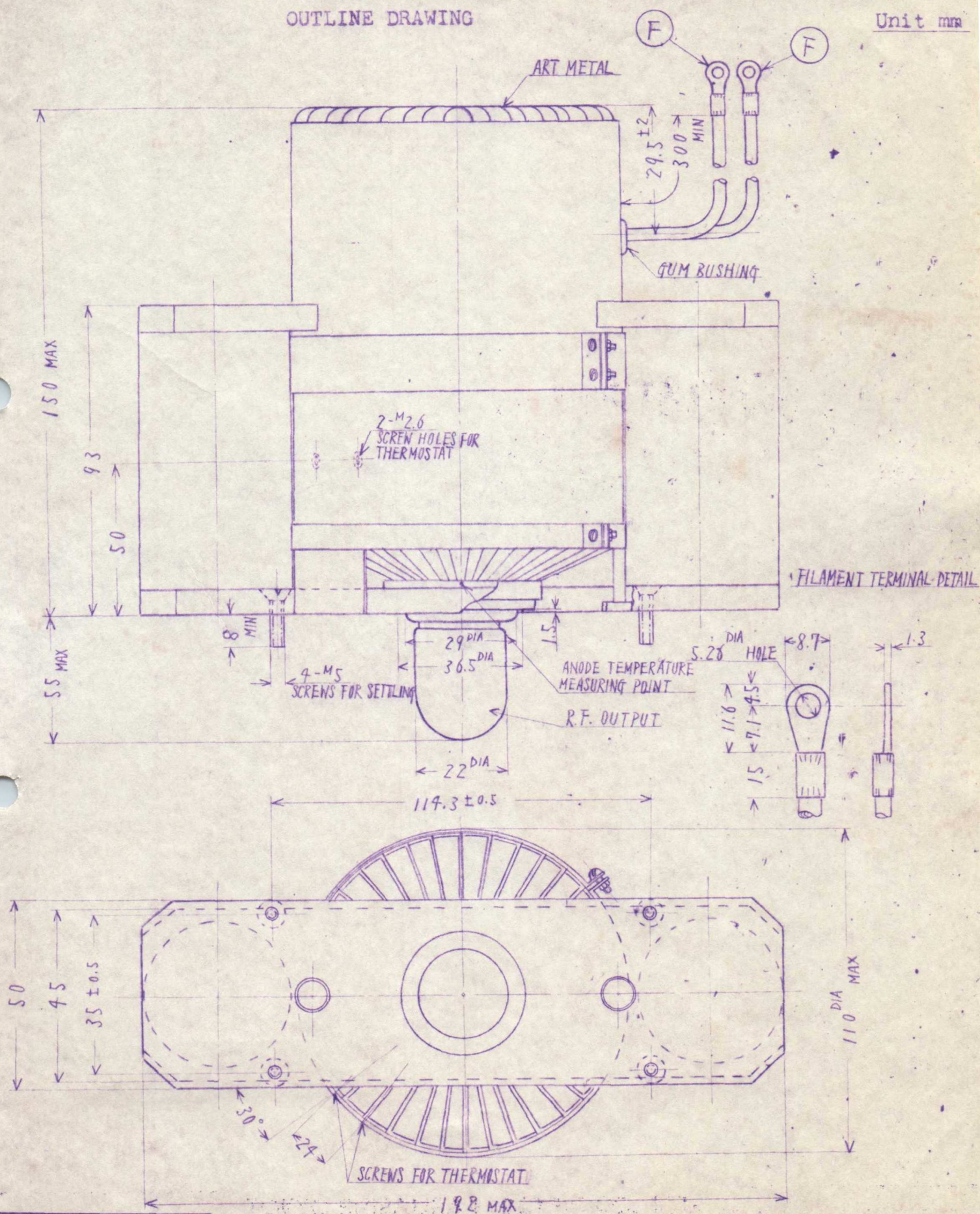
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OUTLINE DRAWING

Unit mm



TOKYO SHIBAURA ELECTRIC CO., LTD.



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R.F. COUPLER

Unit mm

