

# FU-728F

## Specifications

FU-728F metal ceramic tube, forced air cooling, indirectly heated oxide cathode, plate dissipation power 1.2 kW, mostly in Class-AB linear high frequency amplifiers, audio amplification, applies specifically to 1.6 kW SSB final stage transmitter linear amplifiers.



## Characteristic parameters

Filament voltage .....	9 V
Filament current .....	8,5 – 9 A
Transconductance .....	$\geq 14.3$ mA/V
Amplification factor .....	4.2
Negative bias voltage .....	-78.5 V

### Interelectrode capacitances (grounded cathode)

Input max. ....	103 pF
Output max. ....	13.3 pF
Transfer max. ....	0.05 pF

Operating position .....	vertical
Cooling air speed .....	3 m <sup>3</sup> /min.
Temperature at metal/ceramic seals .....	250 °C
Height max. ....	132.5 mm
Diameter max. ....	86.5 mm
Mass max. ....	950 g

## Maximum ratings

f = 110 MHz

Cathode warm up time ..... 3 min.  
Peak surge filament current ..... 12.5 A

Below 110 MHz

Filament voltage error ..... +/- 5%  
Plate voltage DC ..... 3 kV  
Grid 2 voltage max. .... 400 V  
Plate dissipation ..... 1200 W  
Grid 2 dissipation ..... 12 W  
Grid 1 dissipation ..... 1 W

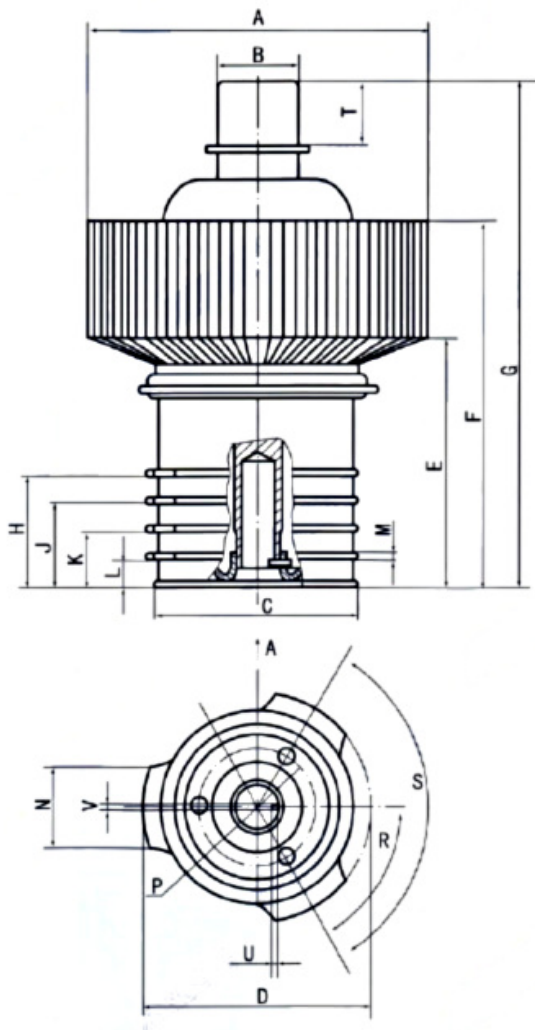
## Typical operation

High Frequency Power Amplifier or AB1-Class modulator

Plate voltage ..... 3000 V  
Grid 2 voltage ..... 350 V  
Grid 1 voltage ..... -79 V  
Plate dissipation ..... 1200 W  
Grid 2 dissipation ..... 12 W  
Grid 1 dissipation ..... 0 W  
Plate current ..... 0.9 A  
Peak Output Power (dual) ..... 2.5 kW  
Output Power (single) ..... 1.8 kW

1 kW FM Class C

Plate voltage ..... 3000 V  
Grid 2 voltage ..... 200 V  
Grid 1 voltage ..... -55 V  
Filament voltage ..... 9 V  
Cathode current ..... 450 mA  
Grid 2 current ..... -2 mA



	min.	max.
C	47.50	48.26
G	116.84	121.92
H	24.51	25.10
J	17.53	18.03
K	10.54	11.05
L	3.56	4.19
M	0.51	0.76
P	7.98	8.28
U	0.64	1.22
V	1.14	1.78
A	84.71	85.47
B	20.50	20.75
D	57.15	58.42
E	55.75	60.45
F	86.61	90.17
N	17.78	20.32
R	55°	65°
S	115°	125°
T	11.94	13.46

## Socket

