

### FU-728F

Type FU-728F electron tube is coaxial type metal ceramics tetrode, forced-air cooling, oxide cathode heated beside and its anode dissipation power is 1.2kW, mainly used for AB linear amplification, audio amplifier, high frequency C amplifier, especially suitable for 1.6kW single side band transmitter as end linear amplification.

#### General Characteristics

Filament voltage.....9V  
 Filament current.....8.5~9A  
 Transconductance..... $\geq 14.3\text{mA/V}$   
 Amplification factor.....4.2  
 Static properties reference points.....-78.5V  
 Interelectrode capacitance (grid earthing)  
   Input capacitance ..... 103pF  
   Output capacitance .....13.3pF  
   Cross circuit capacitance.....0.03pF  
 Installation position.....Any  
 Cooling.....forced-air cooling  
 Air volume..... $\geq 3\text{ m}^3/\text{min}$   
 Max temperature of shell.....250°C  
 Max temperature of seal.....250°C  
 Max temperature of leading-out end....250°C  
 Max height.....132.5mm  
 Max diameter.....86.5mm  
 Max weight.....950kg

#### Maximum ratings

Shortest cathode preheating time.....3min  
 Max filament surge current.....12.5A  
 The limit value under the provisions of frequency ( $f \leq 110\text{MHz}$ )  
 Filament voltage allow deviation..... $\pm 5\%$   
 Max anode dc voltage.....3kV  
 Max grid II dc voltage.....4kV  
 Anode dissipation power.....1.2kW  
 Grid II dissipation power.....12W  
 Grid I dissipation power.....2W

### Typical operation

#### (High-frequency power amplifier or modulation AB1)

Dc anode voltage.....3kV  
 Dc II grid voltage.....350V  
 I grid voltage.....-79V  
 Anode dissipation power.....2.5kW  
 II grid dissipation power.....12W  
 I grid dissipation power.....10W  
 Anode dc current.....0.9A  
 Dual output peak package power.....2.5kW  
 Mono output power.....1.8kW

#### 1kW FM radio machine C

Anode voltage .....3kV  
 II grid voltage.....200V  
 I grid voltage.....-55V  
 Filament voltage.....9V  
 Cathode current.....450mA  
 II grid current.....-2mA

