

TBL6/20

AIR COOLED COAXIAL R.F. POWER TRIODE

QUICK REFERENCE DATA

Freq. (MHz)	C telegr. grounded grid		B television			
			Neg. mod. Pos. sync.		Pos. mod. Neg. sync.	
	V _a (kV)	W _o (kW)	V _a (kV)	W _o (kW) sync.	V _a (kV)	W _o (kW) white
110	5	17	5	17	5	17
48 to 88						
170 to 220						
			4	12	4	12

HEATING: direct; filament thoriated tungsten

Filament voltage $V_f = 6.3 \text{ V}$
 Filament current $I_f = 154 \text{ A}$
 Cold filament resistance $R_{fo} = 0.0054 \Omega$

The filament current must never exceed a peak value of 500 A at any time during the initial energizing schedule

CAPACITANCES

Anode to all other elements except grid $C_a = 0.6 \text{ pF}^1)$
 Grid to all other elements except anode $C_g = 65 \text{ pF}$
 Anode to grid $C_{ag} = 29 \text{ pF}$

TYPICAL CHARACTERISTICS

Anode current $I_a = 1 \text{ A}$
 Anode voltage $V_a = 4 \text{ kV}$
 Amplification factor $\mu = 60$
 Mutual conductance $S = 60 \text{ mA/V}$

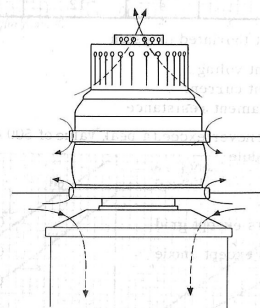
1) Anode fully screened from filament terminals by a flat metal screen connected to the grid terminal 7Z2 8654

TBL6/20

AIR COOLING CHARACTERISTICS. See also the cooling curves on page D

W _a (kW)	h (m)	t _l (°C)	q _{min} (m ³ /min)	P _i (mm H ₂ O)
5.5	0	35	5.0	16
	1500	35	5.9	16
	3000	25	5.7	16
8	0	35	7.7	35
	1500	35	9	40
	3000	25	9	36
10	0	35	11	65
	1500	35	13	75
	3000	25	13	66

Recommended direction of air flow



Generally it is necessary to direct an air flow on the grid, anode and filament seals. E.g. at 220 MHz an air flow of 0.6 m³/min on each of these seals is necessary.

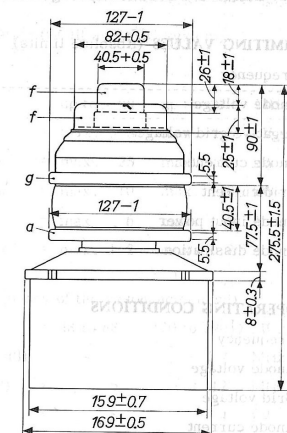
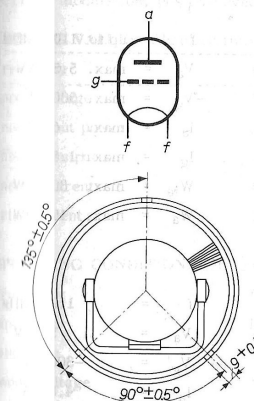
TEMPERATURE LIMITS (Absolute limits)

Temperature of seals = max. 180 °C

MECHANICAL DATA

Dimensions in mm

Net weight: 9.5 kg



Concentricity of outer diameters of the electrode terminals and of the protruding edge of the radiator housing with respect to the radiator housing is max. 1 mm

Mounting position: vertical with anode up or down

ACCESSORIES

Insulating pedestal 40654
 Grid and anode connector 40651
 Inner filament connector 40652
 Outer filament connector 40653

TBL6/20

7Z2 3474