RF POWER TRIODE

Water cooled

QUICK REFERENCE DATA

Industr	ial RF	oscillator	, class-C
_			

freq.	three	phase		
	V_a	W_{o}		
MHz	kŸ	kŴ		
30	7	17,7	_	
	6	14,3		

HEATING: direct; thoriated tungsten filament

Filament voltage	V_{f}	=	6,3 V
Filament current	l _f	=	136 A
	Rfo	=	0,005 Ω
Cold filament resistance	10		

The filament is designed to accept temporary fluctuations of +5% and $-10\%\,$

The filament current must never exceed a peak value of 280 A at any time during the initial energizing schedule.

CAPACITANCES

CALACITATOES			40 5
Anode to all other elements except grid	C _a	=	1,2 pF
	C	=	44.5 pF
Grid to all other elements except anode	$C_{\mathbf{g}}$		· ·/- F
A	C _{aq}	=	33,5 pF
Anode to grid	ag		

TYPICAL CHARACTERISTICS

			0.137
Anode voltage	V _a	=	6 kV
•	l _a	=	2,5 A
Anode current			23 mA/V
Mutual conductance	S	=	23 IIIA/ V
Amplification factor	μ	=	17,5

TEMPERATURE LIMIT (Absolute limit)

Temperature of all seals	max.	50 °C
1 omportune		

Water inlet temperature

Table 1 Cooling characteristics

anode dissipation	inlet temperature	rate of flow	pressure drop	max. outlet
W _a	T _i	^q min	ΔP	temperature
kW	°C	I/min	kPa	T _O (°C)
15	20	15	30	35
	50	34	140	60
10	20	9,5	15	37
	50	22	60	57
5	20	4,5	3	40
	50	12	20	60

ACCESSORIES

Filament clips with cable Grid connector Water jacket O-ring, large small

40662 40664 K720

2622 080 30889 2622 080 30736

^{* 100} kPa \approx 1 at

MECHANICAL DATA

Dimensions in mm

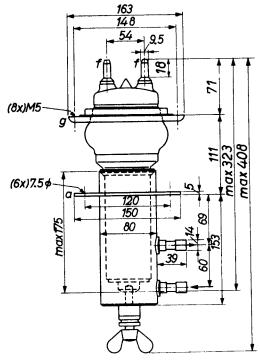
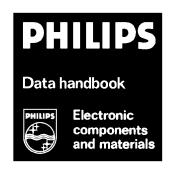


Fig. 1 Mechanical outline.

Mounting position : vertical with anode down.

Net mass of tube : 2 kg
Net mass of water jacket : 2,2 kg

For further data and curves (except cooling curves) please refer to type TBL 6/14



TBW6/14

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