

BROADCAST RF TUBE

WVS Metall-Keramik Tetrode, wassergekühlt, mit koaxialem Aufbau für die Sendertechnik

- ☐ Direkt geheizte Wolfram Kathode
- ☐ Arbeitsfrequenz bis 100MHz
- ☐ Anodenverlustleistung 40KW
- ☐ Ausgangsleistung bis 140KW (2 Röhren im Gegentakt).



WVS CQK-25-2

WVS's Water-cooled metal ceramic tetrode for broadcast application with coaxial structure an water cooled Anode.

- ☐ Thoriated tungsten cathode with direct heating.
- ☐ Operating frequency up to 100MHz
- ☐ Anode dissipation 40kW
- ☐ Output power up to 140kW (2 tubes in push pull).

CHARACTERISTICS

Cathode:	Kathode:	Thoriated Tungsten / Wolfram
Filament Voltage	Heizspannung	10 V $\pm$ 5%
Filament Current	Heizstrom	210 A
Cathode Resistance cold, approx.	Kathodenwiderstand kalt, ca.	0.005 Ω
Transconductance	Steilheit	85 mA/V
Amplification Factor	Verstärkungsfaktor	6.5
Capacities	Kapazitäten	
C _{c-G1}	C _{c-G1}	135 pF
C _{G1-G2}	C _{G1-G2}	170 pF
C _{c-G2}	C _{c-G2}	11 pF
C _{G1-A}	C _{G1-A}	3.0 pF*
C _{c-A}	C _{c-A}	0.35 pF*
C _{G2-A}	C _{G2-A}	55 pF
Mechanical Data	Mechanische Daten	
max. length	max. Länge	338 mm
max. Diameter, approx.	max. Durchmesser, ca.	160 mm
Weight with cooler w/o packing, approx.	Gewicht mit Kühltopf netto ca.	11,6 kg
Weight, packing included, approx.	Gewicht mit Verpackung, ca.:	32 kg

Class of Operation	Type of Service	Maximum Ratings		Typical Operation				
		Plate Voltage (kV)	Plate Current (A)	Plate Voltage (V)	Screen Voltage (V)	Plate Current (A)	Drive Power (W)	Output Power (kW)
AB	RF Linear Amplifier, SSB	12	10	11	1,200	5.8	0	40
B	RF Amplifier / Modulator	12	10	12/10	1,500	2.0	0	140/120
C	RF-Amplifier Anode/G2 modulated	10	8.5	10/8	800	6.8	200/270	55/44
C	RF-Amplifier FM modulated	10/12	10	12/10	1,200	8.2	170	79/64

Characteristics and Operating values are based on performance tests.
Figures may change without notice as the result of additional data or product refinement.
WVS-Technology should be consulted before using this information for final equipment design.