

BROADCAST RF TUBE

Metall-Keramik Tetrode, wasser-gekühlt, mit koaxialem Aufbau für die Sendertechnik

- ☐ Direkt geheizte Wolfram Kathode
- ☐ Arbeitsfrequenz bis 80MHz
- ☐ Anodenverlustleistung 100KW
- ☐ Ausgangsleistung bis 320KW (2 Röhren im Gegentakt).



CQK-50-2

Watercooled ceramic-metal tetrode for broadcast application with coaxial structure an water cooled Anode.

- ☐ Thoriated tungsten cathode with direct heating.
- ☐ Operating frequency up to 80MHz
- ☐ Anode dissipation 100kW
- ☐ Output power up to 320kW (2 tubes in push pull).

CHARACTERISTICS

Cathode	Kathode	Thoriated Tungsten Wolfram
Filament Voltage	Heizspannung	12.5 V $\pm$ 5%
Filament Current, approx.	Heizstrom, ca.	335 A
Maximum heating surge current	Heizung Spitzenstromaufnahme max.	1400 A
Cathode Resistance cold, approx.	Kathodenwiderstand kalt, ca.	0.004 Ω
Transconductance (U_a 6kV, U_g 2800V, I_a 8.0A)	Steilheit (U_a 6kV, U_g 2800V, I_a 8.0A)	ca. 140 mA/V
Amplification Factor	Verstärkungsfaktor	5.8
Capacities	Kapazitäten	
C_{c-G1}	C_{c-G1}	260 pF
C_{G1-G2}	C_{G1-G2}	300 pF
C_{c-G2}	C_{c-G2}	34 pF
C_{G1-A}	C_{G1-A}	3.2 pF*
C_{c-A}	C_{c-A}	0.4 pF*
C_{G2-A}	C_{G2-A}	66 pF
Mechanical Data	Mechanische Daten	
max. length	max. Länge	616 mm
max. Diameter without accessories	max. Durchmesser, ca.	ca. 230 mm
Weight with cooler w/o packing, approx.	Gewicht mit Kühltopf netto ca.	ca. 38 kg
Weight, packing included, approx.	Gewicht mit Verpackung, ca.	ca. 8 kg

Class of Operation	Type of Service	Maximum Ratings		Typical Operation				
		Plate Voltage (kV)	Plate current (A)	Plate Voltage (kV)	Screen Voltage (V)	Plate Current (A)	Drive Power (W)	Output Power (kW)
B	RF Modulator or Amplifier	18	15	18	-280	25.4	0	320
C	RF Amplifier plate and G2 modulated	12.5/15	16.5	12.5	800	16	485	157
C	RF Amplifier frequency modulated	18/15	20	15	-735	20	640	244/235

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.