



ELECTRONIC TUBE REFERENCE

4CM4

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Telefunken 4CM4 indirectly heated miniature UHF grounded-grid amplifier triode for frequencies to 800 MHz, with 4 V 300 mA heater and 14 mA/V transconductance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	4 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	68
MAXIMUM PLATE VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	20 mA
Telefunken 4CM4 1959 UHF grounded-grid triode. Heater 4 V 0.3 A, typical heater 3.8 V. Max plate 220 V, dissipation 2.2 W, cathode current 20 mA, negative grid voltage magnitude 50 V, heater-cathode ± 100 V, grid resistor max 1 MΩ. Typical V_a 175 V, V_g -1.5 V, I_a 12 mA, gm 0.014 A/V, mu 68. UHF amplification to 800 MHz, at 100 MHz gm phase -7°, additional noise conductance 0.5 mmhos. Capacitances shielded/unshielded: Cgp 3.1/2.0 pF, Cpk unshielded 0.2 pF, Cgk unshielded 3.6 pF, input g-(h+k) 4.2/3.9 pF, output p-(h+k) 0.25/0.3 pF. Plate pins 1/9, grid 2/6/8, cathode 3/7, heater 4/5. No plate resistance specified.	

UHF triode for grounded-grid amplifier service up to approximately 800 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1959 TELEFUNKEN

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	800 MHz	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Grounded-grid UHF amplifier	—