

ELECTRONIC TUBE REFERENCE

HRO701

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Magnetically focused backward-wave oscillator covering approximately 3.6–7.2 GHz, designed as an electronically tunable microwave measurement generator.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	60 mA
Microwave-device section. Standard promoted fields contain the closest directly equivalent published anode/beam limits; device-specific quantities are preserved in TUBE_SECTION_PARAMETER.	

Magnetically focused backward-wave oscillator covering approximately 3.6 to 7.2 GHz for electronically tunable microwave measurement generation.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · TravelingWave

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	2.1 A	Published nominal value
Frequency range	3.6–7.2 GHz	Published tuning range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF output power at 3.6 GHz	20 mW	Published minimum
RF output power at 7.2 GHz	300 mW	Published minimum

TUBE TINKER

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