

ELECTRONIC TUBE REFERENCE

TE10

Specialized - Uncategorized electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

OTHER

X-band gas-discharge noise tube designed as a stable built-in microwave noise source for measurement, receiver calibration, and equipment monitoring.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 95 mA	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Other	
REGULATOR VOLTAGE	150 V
MAXIMUM REGULATOR CURRENT	50 mA
STARTING VOLTAGE	1150 V
MAINTAINING VOLTAGE	150 V
Gas-discharge noise tube; striking and normal discharge operating values are promoted into regulator-style fields, with original labels retained in parameter rows.	

Ferranti TE10 is an X-band gas-discharge noise tube specifically designed for microwave noise measurement and built-in monitoring. It operates as a stable struck discharge source with a 1.15 kV striking requirement and about 150 V normal operating voltage.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Other

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	95 mA	Nominal
Normal operating voltage	150 V	At 35 mA
Normal operating current	35 mA	—
Maximum operating current	50 mA	—
Minimum series resistance	3000 ohm	Required for stability

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Striking voltage	1150 V	Gas discharge ignition
Available noise power	15.25–20.25 dB	Referred to thermal noise at 17 C
VSWR at 9375 Mc/s	1.01	Struck tube in tuned mount
Maximum insertion loss, unstruck	0.2 dB	Tube in mount

FREQUENCY		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Specified VSWR band	9025–9725 Mc/s	9375 Mc/s centre frequency ± 350 Mc/s as printed
Retunable mount range	8500–10500 Mc/s	Unlocked tuning screws on request

TUBE TINKER

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