

Coaxial tungsten-filament noise diode designed specifically for RF noise-factor measurements to approximately 2.5 GHz, with roughly 70-ohm characteristic impedance for microwave instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4.7 V / 3.8 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM CATHODE CURRENT	200 mA
Applicable promoted ratings mapped semantically from the printed approximate-data/ratings tables; useful non-promoted operating, capacitance and service data retained in TUBE_SECTION_PARAMETER.	

Coaxial tungsten-filament noise diode of approximately 70-ohm characteristic impedance for noise-factor measurements to 2.5 GHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Characteristic Impedance	70 ohm	—
Saturated Anode Current Typical	23 mA	—
Filament Current at 4.7V	3.8 A	—
Anode Current Maximum	200 mA	—
Plate Dissipation Convection Maximum	10 W	—
Plate Dissipation Forced-Air Maximum	40 W	—
Cathode-Anode Capacitance	4.8 pF	—
Frequency Maximum	2500 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Range	0–4.7 V	—
Noise Factor Measurement Range	0–24 dB	—