

ELECTRONIC TUBE REFERENCE

NF41

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVETR SWITCH

Very-broadband radar TR power-limiting cell protecting receiver crystals across approximately 7-11.5 GHz.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Microwave TR Switch
No fixed ratings recorded. Published Ferranti ratings and characteristics promoted where applicable; additional electrical, pulse, regulator, microwave, and operating data retained as parameters.

Very-broad-band radar T.R. power-limiting cell for crystal protection from about 7 to 11.5 GHz.

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 · Microwave TRSwitch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	7000 MHz	—
Frequency maximum	11500 MHz	—
Breakdown power average	150 mW	—
Total leakage power average	60 mW	—
Spike leakage energy average	0.13 erg/pulse	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum line/transmitter power	0.1 kW	—
Primer supply voltage maximum	-1500 V	—
Primer supply voltage minimum	-950 V	—
Primer current maximum	150 uA	—
Primer current minimum	100 uA	—
Breakdown power limit	300 mW	—
Recovery time to 6 dB loss maximum	50 us	—
Primer operating voltage typical	190 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Radar T.R. / receiver protection cell	—