

ELECTRONIC TUBE REFERENCE

TV3308

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MICROWAVETR SWITCH

Specialized microwave TR-switching device. Available source material establishes microwave switching construction but does not support a more specific functional description.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 MicrowaveTRSwitch
No fixed ratings recorded.
Published ratings and characteristics audited; detailed numeric data retained in parameter table.

The TV3308 is a phase-controlled Ku-band crystal-protector tube operating from 16 to 17 GHz. An ignitor-initiated internal gas discharge protects the receiver from high-energy microwave signals.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · Microwave TR Switch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
maximum power level of	10 kW	maximum power level of 10 kW.
Insertion loss at low level, without ignitor current max	800 mA	Insertion loss at low level, without ignitor current max. 0.8 dB
Ignitor interaction fora [1]	100 A	Ignitor interaction fora 100 A current. max. 0.2 dB
Ignitor interaction fora [2]	200 mA	Ignitor interaction fora 100 A current. max. 0.2 dB
Voltage drop between ignitor and tube body for a [1]	100 V	Voltage drop between ignitor and tube body for a 100 A current (1) max 400 \Y,
Voltage drop between ignitor and tube body for a [2]	1 V	Voltage drop between ignitor and tube body for a 100 A current (1) max 400 \Y,
Voltage drop between ignitor and tube body for a [3]	400 V	Voltage drop between ignitor and tube body for a 100 A current (1) max 400 \Y,
Recovery timeat	-3	Recovery timeat —3dB
Spike leakage energy Lo max	0.3	Spike leakage energy Lo max. 0.3 erg
Flat leakage power, peak max	75 W	Flat leakage power, peak max. 75 mwW
Breakdown power e max	150 W	Breakdown power e max. 150 mW
Ignitor voltage - absolute value - (open circuit) ([1]	1 V	Ignitor voltage - absolute value - (open circuit) (1) ... 700 - \Y
Ignitor voltage - absolute value - (open circuit) ([2]	700 V	Ignitor voltage - absolute value - (open circuit) (1) ... 700 - \Y
Ignitor current . . . L [1]	100 A	Ignitor current . . . L. 100 200 HA
Ignitor current . . . L [2]	200 A	Ignitor current . . . L. 100 200 HA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequencyrange [1]	16 GHz	Frequencyrange 16.0 17.0 GHz
Frequencyrange [2]	17 GHz	Frequencyrange 16.0 17.0 GHz
Applied RF power, peak [1]	0 kW	Applied RF power, peak 0 10 kW
Applied RF power, peak [2]	10 kW	Applied RF power, peak 0 10 kW
A resistance of at least [1]	0	A resistance of at least 0. 5 M2 should be placed in series with each ignitor, as close as possible to the
A resistance of at least [2]	5	A resistance of at least 0. 5 M2 should be placed in series with each ignitor, as close as possible to the
Pertes par insertion,	3 A	Pertes par insertion, 3 bas niveau, sans courant d'électrode
tube pour un courant de	100 A	tube pour un courant de 100 A (note L
Energie de fuite dans la pointe max	3	Energie de fuite dans la pointe max. 0,3 erg
Puissance crête de fuite dans le palier , max	75 W	Puissance crête de fuite dans le palier , max. 75 mw
Courant dans chaque électrode d'entretien [1]	100 A	Courant dans chaque électrode d'entretien 100 200 UA
Courant dans chaque électrode d'entretien [2]	200 A	Courant dans chaque électrode d'entretien 100 200 UA
Gammedefréquence [1]	160 GHz	Gammedefréquence 16,0 17,0 GHz
Gammedefréquence [2]	170 GHz	Gammedefréquence 16,0 17,0 GHz
Puissance crête rfappliquée [1]	0 kW	Puissance crête rfappliquée 0 10 kW
Puissance crête rfappliquée [2]	10 kW	Puissance crête rfappliquée 0 10 kW
être faite d courant constant d I'aide de source	3 A	être faite d courant constant d l'aide de source 3 grande résistance interne de telle façon que l'intensité reste dans

TUBE TINKER

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