

ELECTRONIC TUBE REFERENCE

TV3309

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
MICROWAVE TR SWITCH

Specialized dual-section 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 Microwave TR Switch
No fixed ratings recorded. Representative row for two equivalent gas-discharge sections. Published ratings and characteristics audited; detailed numeric data retained in parameter table.

The TV3309 is a phase-controlled dual TR gas-discharge tube for Ku-band radar duplexers operating from 16 to 17 GHz. Its two ionized sections protect the receiver during transmission.

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
Voltage drop between ignitor and tube body for	100 V	Voltage drop between ignitor and tube body for 100 uA ignitor
current ([1]	1 A	current (1) e max. 475 Vv
current ([2]	475 A	current (1) e max. 475 Vv
Recoverytimeat- [1]	3 us	Recoverytimeat—3dB:..... max. 10 us
Recoverytimeat- [2]	10 us	Recoverytimeat—3dB:..... max. 10 us
Spike leakage energy max	0.1	Spike leakage energy max. 0.1 erg
Flat leakage power, peak, max	20 W	Flat leakage power, peak, max. 20 mwW
Ignitor voltage - absolute value - {(open circuit) ([1]	1 V	Ignitor voltage - absolute value - {(open circuit) (1) 700 - Vv
Ignitor voltage - absolute value - {(open circuit) ([2]	700 V	Ignitor voltage - absolute value - {(open circuit) (1) 700 - Vv
Ignitorcurrent ([1]	1 A	Ignitorcurrent (1), ... 100 200 uA
Ignitorcurrent ([2]	100 A	Ignitorcurrent (1), ... 100 200 uA
Ignitorcurrent ([3]	200 A	Ignitorcurrent (1), ... 100 200 uA
Applied RF power, peak	100 kW	Applied RF power, peak - 100 kW
A resistance of at least [1]	0	A resistance of at least 0. 5 M{2 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 M{2 should be placed in series with each ignitor, as close as possible to the

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
A resistance of at least [3]	2	A resistance of at least 0.5 MΩ should be placed in series with each ignitor, as close as possible to the
fuite qui traverse le TV	3309	fuite qui traverse le TV 3309 est dérivée par le couplage de
corps du tube pour un courant de [1]	100 A	corps du tube pour un courant de 100 uA {(note 1) max. 475 \}
corps du tube pour un courant de [2]	1 A	corps du tube pour un courant de 100 uA {(note 1) max. 475 \}
corps du tube pour un courant de [3]	475 A	corps du tube pour un courant de 100 uA {(note 1) max. 475 \}
Energie de fuite dans la pointe max	1	Energie de fuite dans la pointe max. 0,1 erg
Puissance crête de fuite pendant le palier max	20 W	Puissance crête de fuite pendant le palier max. 20 mW
Gamme de fréquence not e [1]	160	Gamme de fréquence not e 16,0 17,0 MHz:
Gamme de fréquence not e [2]	170	Gamme de fréquence not e 16,0 17,0 MHz:
Courant dans chaque électrode d'entretien (note [1])	1 A	Courant dans chaque électrode d'entretien (note 1) 109 200 MA
Courant dans chaque électrode d'entretien (note [2])	109 A	Courant dans chaque électrode d'entretien (note 1) 109 200 MA
Courant dans chaque électrode d'entretien (note [3])	200 A	Courant dans chaque électrode d'entretien (note 1) 109 200 MA
Puissance crête rf appliquée	100 kW	Puissance crête rf appliquée 100 kw
tation doivent être faites	4 A	tation doivent être faites 4 courant constant a l'aide de sources & grande résistance interne de telle façon que l'in-

TUBE TINKER

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