

ELECTRONIC TUBE REFERENCE

TH3085

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

External-magnet tunable high-power S-band pulsed magnetron for demanding radar and microwave transmitter applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 3.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	30000 V
Magnetron oscillator; specialized magnetic-field and pulse parameters are preserved in TUBE_SECTION_PARAMETER.	

The Thomson-CSF TH3085 is a external-magnet tunable high-power s-band pulsed magnetron.

SOURCE OPERATING CONDITIONS

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 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	2700–2900 MHz	—
Heater voltage	16 V	—
Heater current	3.1 A	—
Peak anode voltage minimum	30000 V	—
Device type	Pulsed magnetron	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak output power minimum	800 kW	—
Peak anode voltage maximum	30000 V	—
Pulse duration minimum	1 us	—
Pulse duration maximum	2 us	—
Duty cycle	0.0005	—
Peak anode current	70 A	—
Frequency pulling maximum	15 MHz	—