

ELECTRONIC TUBE REFERENCE

F6046

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Coaxial ceramic high-power pulse triode for oscillator and hard-tube switching service. Very high pulse voltage and current capability, together with massive cooling capacity, suit major radar and pulsed-power systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 480 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.135 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	50000 V
MAXIMUM PLATE DISSIPATION	150000 W
MAXIMUM GRID DISSIPATION	2500 W
MAXIMUM CATHODE CURRENT	400 A
Published promoted ratings/characteristics retained where readable; additional values are in TUBE_SECTION_PARAMETER.	

Coaxial ceramic high-power pulse triode for oscillator or hard-tube service to about 60 MHz, cooled by forced air, water, or vaporization.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament-to-grid capacitance	180 pF	—
Grid-to-plate capacitance	100 pF	—
Filament-to-plate capacitance	3.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	60000 W	ForcedAirCooling
Maximum plate dissipation	150000 W	WaterOrVaporCooling
Maximum pulse duration	1000 us	HardTubePulse
Maximum duty factor	0.015 ratio	HardTubePulse
Plate voltage	44 kV	Pulse;DutyFactor=0.012
Pulse plate current	300 A	Pulse;DutyFactor=0.012
Output power	12 MW	Pulse;DutyFactor=0.012