



ELECTRONIC TUBE REFERENCE

F7341

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Specialized ITT traveling-wave microwave amplifier intended for broadband RF service; available extracted documentation provides limited performance detail.

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 TravelingWave

No fixed ratings recorded.

Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.

The F7341 is a five-watt pulsed traveling-wave amplifier covering approximately 8 to 9.6 GHz, using a rugged metal envelope and helix slow-wave structure.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The F-T3 [1]	41	The F-T341 is a 5 watt pulse traveling wave amplifier tube having 25 db gain
The F-T3 [2]	5	The F-T341 is a 5 watt pulse traveling wave amplifier tube having 25 db gain
The F-T3 [3]	25	The F-T341 is a 5 watt pulse traveling wave amplifier tube having 25 db gain
and [1]	8000	and 8000 to 9600 mc frequency range. It is constructed in a rugged metal
and [2]	9600	and 8000 to 9600 mc frequency range. It is constructed in a rugged metal
element used in F	6996	element used in F-6996, Operation is limited by this grid to pulse service,
Heater Voltage [1]	6.3 V	Heater Voltage 6.3 (±10%) volts
Heater Voltage [2]	10 V	Heater Voltage 6.3 (±10%) volts
Heater Current	2.3 A	Heater Current 2.3 amperes
Maximum Anode Voltage (Note [1])	1 V	Maximum Anode Voltage (Note 1) 3400 wvolts
Maximum Anode Voltage (Note [2])	3400 V	Maximum Anode Voltage (Note 1) 3400 wvolts
Maximum Shell Current (Note [1])	2 A	Maximum Shell Current (Note 2) 20 ma peak
Maximum Shell Current (Note [2])	20 A	Maximum Shell Current (Note 2) 20 ma peak
Maximum Collector Voltage (Note [1])	3 V	Maximum Collector Voltage (Note 3) 3500 wvolts
Maximum Collector Voltage (Note [2])	3500 V	Maximum Collector Voltage (Note 3) 3500 wvolts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Collector Dissipation (Note [1])	4 W	Maximum Collector Dissipation (Note 4) 10 watts
Maximum Collector Dissipation (Note [2])	10 W	Maximum Collector Dissipation (Note 4) 10 watts
Maximum Grid Voltage (Note	5 V	Maximum Grid Voltage (Note 5)
Maximum Grid Current	6 A	Maximum Grid Current 6 ma peak
Minimum Frequency	8000	Minimum Frequency 8000 mc
Maximum Frequency	9600	Maximum Frequency 9600 mc
Capacitance - Grid to all other elements	15 pF	Capacitance - Grid to all other elements 15 ppf max,
R-F Input and Output Impedance	50	R-F Input and Output Impedance 50 ohm coax.
Glass Temperature	160	Glass Temperature 160 °C max.
Anode Voltage	3200 V	Anode Voltage 3200 volts
Shell Current	10 A	Shell Current 10 ma peak
Collector Voltage	3200 V	Collector Voltage 3200 wvolts
Collector Current	50 A	Collector Current 50 ma peak
Applied Voltage Pulse	120 V	Applied Voltage Pulse 120 volts peak
Grid Current	3 A	Grid Current 3 ma peak
Power Output	5 W	Power Output 5 watts nominal
Gain	25	Gain 25 db nominal
Note	1 V	Note 1: All voltages shown are with respect to cathode. The shell is
Note	2 V	Note 2: Initial adjustments of voltage and magnetic field may be made at
low duty cycles	20 A	low duty cycles. 20 ma shell current must not be exceeded at maxi-
Note	3	Note 3: The collector is normally connected to the shell. A viewing resistor
Note	5 V	Note 5: Positive voltage must not be applied to the grid in the absence of
Note [1]	7 V	Note 7: The minimum cold insertion loss applies for grid voltage of -10
Note [2]	-10 V	Note 7: The minimum cold insertion loss applies for grid voltage of -10
Base B6 [1]	-63	Base B6-63 Collector Connector UG-23 B/U

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Base B6 [2]	23	Base B6-63 Collector Connector UG-23 B/U
Published value	2	2 Heater-Cathode
Published value	6	6 Grid
Published value	10	10 Heater

TUBE TINKER

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and their source documents.

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