

ELECTRONIC TUBE REFERENCE

F7526

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Specialized ITT traveling-wave microwave amplifier intended for broadband RF amplification; available source extraction provides limited reliable operating 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

SECTION1 TravelingWave
No fixed ratings recorded.
Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.

The F7526 is a low-power continuous-wave traveling-wave amplifier covering approximately 8 to 12 GHz, using a rugged metal envelope and helix slow-wave structure; it is also suitable for pulse service.

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= [1]	7526	THE F=7526 18 A 50 Mw CW TRAVELING WAVE AMPLIFIER TUBE HAVING 30 DB GAIN
THE F= [2]	18	THE F=7526 18 A 50 Mw CW TRAVELING WAVE AMPLIFIER TUBE HAVING 30 DB GAIN
THE F= [3]	50	THE F=7526 18 A 50 Mw CW TRAVELING WAVE AMPLIFIER TUBE HAVING 30 DB GAIN
THE F= [4]	30	THE F=7526 18 A 50 Mw CW TRAVELING WAVE AMPLIFIER TUBE HAVING 30 DB GAIN
AND [1]	8	AND 8.0 To 12.0 KMC FREQUENCY RANGE. IT 1S CONSTRUCTED IN A RUGGED
AND [2]	12	AND 8.0 To 12.0 KMC FREQUENCY RANGE. IT 1S CONSTRUCTED IN A RUGGED
AND [3]	1	AND 8.0 To 12.0 KMC FREQUENCY RANGE. IT 1S CONSTRUCTED IN A RUGGED
INTEGRAL COLLECTOR COOLER, WHICH	1	INTEGRAL COLLECTOR COOLER, WHICH 1S REQUIRED TO PROVIDE A UNIFORM MAG=-
HeATER VOLTAGE	6.3 V	HeATER VOLTAGE 6.3 ('fs%) VoLTS
HEATER CURRENT	850 mA	HEATER CURRENT 0.85 AMPERE
MaxX tMUM FREQUENCY	12	MaxX tMUM FREQUENCY 12.0 KMC
MINIMUM FREQUENCY	8	MINIMUM FREQUENCY 8.0 KMC
Max iMmuMm AnoDe VourTage (Note [1])	1	Max iMmuMm AnoDe VourTage (Note 1) 1600 VoLts
Max iMmuMm AnoDe VourTage (Note [2])	1600	Max iMmuMm AnoDe VourTage (Note 1) 1600 VoLts
Max iMmum Hetilx CurreNt (Note [1])	2 A	Max iMmum Hetilx CurreNt (Note 2) 2 MA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max iMmum Hetilx CurreNt (Note [2])	2 A	Max iMmum Heti1x CurreNt (Note 2) 2 MA
Max IMUM CoLLECTOR DisstPaTioN (BeaMm Power)	15 W	Max IMUM CoLLECTOR DisstPaTioN (BeaMm Power) 15 WATTS
SOLENOID CURRENT [1]	6 A	SOLENOID CURRENT .6 10 1.13 AMPS
SOLENOID CURRENT [2]	10 A	SOLENOID CURRENT .6 10 1.13 AMPS
SOLENOID CURRENT [3]	1.13 A	SOLENOID CURRENT .6 10 1.13 AMPS
SOLENOID VOLTAGE [1]	150 V	SOLENOID VOLTAGE 150 to 200 voC
SOLENOID VOLTAGE [2]	200 V	SOLENOID VOLTAGE 150 to 200 voC
ANODE VOLTAGE	1400 V	ANODE VOLTAGE 1400 VoLTs
ANODE CURRENT	5 A	ANODE CURRENT 5 MA
HeLtx CURRENT	500 mA	HeLtx CURRENT 0.5 MA
SoLENOID CURRENT	900 mA	SoLENOID CURRENT 0.9 Awmprs
SOLENOID VOLTAGE	170 V	SOLENOID VOLTAGE 170 VoiLTs
Power OuTtPUT	50 W	Power OuTtPUT 50 Mw NOMINAL
GAIN	30	GAIN 30 DB NOMINAL
BeaM	1	BeaM 1.0
NOoTE	1 V	NOoTE 1: ALL VOLTAGE SHOWN ARE WITH RESPECT TO CATHODE. ANODE, COLLECTOR
NOTE	2 A	NOTE 2: THE HELIX CURRENT SHOULD BE MINIMIZED AND MUST BE LESS THAN THE
MAX {MUM RATING. [T	1 A	MAX {MUM RATING. [T 1S DESIRABLE TO MONITOR THIS CURRENT DURING
OPERATION, THE PEAK HELIX CURRENT MAY EXCEED	2 A	OPERATION, THE PEAK HELIX CURRENT MAY EXCEED 2 MA, BUT CARE
CURRENT MUST NOT EXCEED	2 A	CURRENT MUST NOT EXCEED 2 MA.
NoTeE [1]	3 V	NoTeE 3: THE CONTROL ELECTRODE VOLTAGE 15 ADJUSTED FOR BEST TRANSMISSION
NoTeE [2]	15 V	NoTeE 3: THE CONTROL ELECTRODE VOLTAGE 15 ADJUSTED FOR BEST TRANSMISSION
FOR OW oPERATION (NORMALLY ABOUT	-5	FOR OW oPERATION (NORMALLY ABOUT -5 VOLTS). BEAM GATE OFF CAN
BE ACCOMPLISHED BY APPLYING VOLTAGE OoFF ~ [1]	400 V	BE ACCOMPLISHED BY APPLYING VOLTAGE OoFF ~400 to -500 voLTs. THE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BE ACCOMPLISHED BY APPLYING VOLTAGE 0ofF ~ [2]	-500 V	BE ACCOMPLISHED BY APPLYING VOLTAGE OofF ~400 to -500 voLTs. THE
RANGE OF APPROXIMATELY = [1]	5	RANGE OF APPROXIMATELY =5 70 =400 voLTs. For GATED BEAM (PULSE)
RANGE OF APPROXIMATELY = [2]	70	RANGE OF APPROXIMATELY =5 70 =400 voLTs. For GATED BEAM (PULSE)
RANGE OF APPROXIMATELY = [3]	400	RANGE OF APPROXIMATELY =5 70 =400 voLTs. For GATED BEAM (PULSE)
INPUT [[1]	3	- INPUT [- 3/ 4 N
INPUT [[2]	4	- INPUT [- 3/ 4 N

TUBE TINKER

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