



ELECTRONIC TUBE REFERENCE

3FW7

Voltage - Dual Triode (dissimilar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu dual triode designed for VHF television and FM tuner frequency conversion, with one section serving as the local oscillator and the other as the mixer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	3.5 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM CATHODE CURRENT	20 mA
Oscillator section; separately published Unit 1 characteristics.	

SECTION 2 Triode	
PLATE RESISTANCE	3800 Ω
TRANSCONDUCTANCE	0.0095 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM CATHODE CURRENT	20 mA
<i>Mixer section; separately published Unit 2 characteristics.</i>	

Medium-mu dual triode; section 1 oscillator and section 2 mixer for VHF TV/FM tuners.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1982 Toshiba

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

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	20 V	ClassA1
Grid Voltage	-1 V	ClassA1
Plate Current	7 mA	ClassA1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1.6 pF	Section1

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Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	0 V	ClassA1
Grid Voltage	-1 V	ClassA1
Plate Current	9 mA	ClassA1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1.5 pF	Section2

TUBE TINKER

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