

ELECTRONIC TUBE REFERENCE

B739

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Miniature twin triode for low-frequency voltage amplification, co-designated 12AT7 and ECC81, providing two general-purpose amplifier sections.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 370 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.25 W
MAXIMUM CATHODE CURRENT	18 mA
Representative section for two electrically identical sections.	

SECTION2 Triode	
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.25 W
MAXIMUM CATHODE CURRENT	18 mA
Second physical triode restored under current one-row-per-physical-section policy.	

Miniature twin triode for low-frequency voltage amplification; co-designated 12AT7 and ECC81.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Genalex Rebrand

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

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Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4500–6500 μS	Plate 250 V; grid -2 V
Plate Current	9–12 mA	Plate 250 V; grid -2 V

TUBE TINKER

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and their source documents.

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