



ELECTRONIC TUBE REFERENCE

X65

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

2 SECTIONS
CONSTRUCTION
HEXODE-TRIODE

Radio receiver frequency changer designed for superheterodyne mixer and oscillator service. Its multi-grid construction performs signal conversion, often integrating local oscillation and mixing within one valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Marconi X65 triode oscillator of indirectly heated all-wave/short-wave triode-hexode frequency changer. Manufacturer supplies 250 V anode circuit supply through approximately 30 k Ω and other typical operating conditions, not a clearly declared unrestricted triode maximum anode voltage; prior 250 V maximum field cleared. Octal/IO base and 6.3 V heater.

SECTION2 Hexode

No fixed ratings recorded.

Marconi X65 frequency-converter hexode suited to all-wave receivers with good short-wave performance and low frequency pulling. Manufacturer's 250 V anode supply and 100 V screen are typical circuit operating points, not explicitly defined absolute maxima, and maximum voltage fields remain unknown. Published conversion impedance approximately 2.5 M Ω and total cathode current near 11 mA are application-specific characteristics.

Triode-hexode all-wave frequency changer.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator section function	Local oscillator	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator anode voltage	250 V	—

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Section 2 · Hexode

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mixer section identity	Hexode	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mixer anode voltage	250 V	—
Mixer screen voltage	100 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency-changer service	Explicit	—