



ELECTRONIC TUBE REFERENCE

16CLP4C

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Sixteen-inch magnetically deflected cathode-ray display tube documented by Mazda-Belvu; available manufacturer extraction identifies screen size and deflection method but provides limited additional application detail.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	18000 V
<i>Monochrome cathode-ray picture-tube electron-gun/display system; high-voltage and focusing limits published.</i>	

16CLP4C Monochrome Cathode Ray Tube

The **16CLP4C** (also written as **16 CL P4 C**) is a monochrome cathode ray tube (cathoscope monochrome) designed for television display applications. Manufactured under the Mazda Belvu brand by CIFTE, the tube features a 114-degree deflection angle, electrostatic focusing, and magnetic deflection. It is constructed with a self-protected (autoprotégé) envelope and an aluminized screen.

Physical and Optical Characteristics

The 16CLP4C is designed with specific physical dimensions and optical properties optimized for television receiver designs:

- **Screen Diagonal:** 40 cm
- **Deflection Angle:** 114°
- **Screen Type:** Aluminized (écran aluminisé) with a useful screen area of 905 cm²
- **Overall Length:** 266.5 ± 6 mm
- **Faceplate Transmission:** The tube features a clear screen (écran clair) with a faceplate transmission coefficient (coefficient de transmission de la dalle-écran) of 77%.

The tube utilizes electrostatic focusing (concentration électrostatique) to shape the electron beam and magnetic deflection (déviation magnétique) for scanning. Its self-protected construction provides integral safety against implosion hazards.

Relationship to the 16 CL P4

The 16CLP4C is a direct variant of the standard **16 CL P4** cathode ray tube. The relationship between the two types is defined by their optical and mechanical specifications:

- **Faceplate Transmission Difference:** The 16CLP4C is equipped with a clear screen that has a faceplate transmission coefficient of 77%. This specific transmission value is the sole differentiating factor between the 16CLP4C and the standard 16 CL P4.
- **Shared Characteristics:** For all other electrical, mechanical, and operating characteristics, the 16CLP4C does not differ from the 16 CL P4. Consequently, the operating parameters, pinout configurations, and electrical ratings of the 16 CL P4 apply directly to the 16CLP4C.

Technical Summary

The **16CLP4C** is a 114-degree monochrome cathode ray tube featuring a 40 cm diagonal, electrostatic focusing, magnetic deflection, and a self-protected glass envelope. With an overall length of 266.5 ± 6 mm and an aluminized screen area of 905 cm², it offers a compact form factor for television receivers. Its defining characteristic is its clear faceplate, which provides a light transmission coefficient of 77%, distinguishing it from the standard 16 CL P4 while retaining identical physical and electrical specifications.



SOURCE OPERATING CONDITIONS

SOURCE PDF

1968 Mazda Belvu

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

1968 MAZDA BELVU
Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ScreenDiagonal	16 in	—
Deflection	Magnetic text	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

Catalog Tube types Full books Blog Feedback & corrections