CATHODE RAY

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC
ANY MOUNTING POSITION
GLASS BULB
SMALL SHELL DUODECAL 7 PIN BASE

THE 12QP4 IS A GLASS ENVELOPE, MAGNETIC DEFLECTION AND MAGNETIC FOCUS DIRECT-VIEW PICTURE TUBE INTENDED FOR USE IN TELEVISION RECEIVERS. IT PROVIDES FOR A PICTURE 7 1/2" X 10". THE ELECTRON GUN IS DESIGNED TO BE USED WITH AN EXTERNAL SINGLE MAGNET ION-TRAP FOR THE PREVENTION OF ION-SPOT BLEMISH.

DESCRIPTION

FLUORESCENCE AND PHOSPHORESCENCE WHITE
PERSISTENCE MEDIUM
DEFLECTING AND FOCUSING METHOD MAGNETIC
DEFLECTION ANGLE (APPROX.) 55 DEGREES
ION-TRAP MAGNETIC
BULB CONTACT RECESSED SMALL CAVITY CAP
RASTER SIZE 7 1/2" X 10"

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID #1 TO ALL OTHER ELECTRODES 7 µuf
CATHODE TO ALL OTHER ELECTRODES 5 µuf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE 6.3 VOLTS
HEATER CURRENT 0.6 AMP.
MAXIMUM ANODE VOLTAGE 12 000 VOLTS
MAXIMUM GRID #2 VOLTAGE 410 VOLTS
MAXIMUM GRID #1 VOLTAGE:
NEGATIVE BIAS VOLTAGE 125 VOLTS
POSITIVE BIAS VOLTAGE 0 VOLTS
POSITIVE PEAK VOLTAGE 2 VOLTS
PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE:
DURING EQUIPMENT WARM-UP PERIOD
NOT EXCEEDING 45 SECONDS
AFTER EQUIPMENT WARM-UP PERIOD
HEATER POSITIVE WITH RESPECT TO CATHODE
MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ANODE VOLTAGE: 10,000 volts
GRID #2 VOLTAGE: 250 volts
GRID #1 VOLTAGE (VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT): -27 to -65 volts
FOCUSING COIL CURRENT (APPROX.): 135 mA
ION-TRAP CURRENT (APPROX.)\(^A\): 80 mA

\(^A\) SINGLE FIELD ION-TRAP MAGNET.

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1. HEATER
2. GRID NO. 1
6. NO CONNECTION
7. NO CONNECTION
10. NO CONNECTION
11. CATHODE
12. HEATER
CAP ANODE