TYPE DESIGNATION SYSTEM

symbol		old	new	
first letter	group	D: electrostatic deflection and focus	D: single trace oscilloscope tube M: monitor tube	
second letter	before the group	B, G, H, L, N, P or W: cf. screen designation system	-	
third letter	pee	M: multiple trace tube	_	
number preceding	hyphen	screen diameter or screen diagonal	in cm	
number following hyphen		serial number indicating a particular design or development		
final letters		F: flat faceplate	BE, GH, GJ, GL, GM, GR, LD or cf. screen designation system	

For eliminating the parallax the oscilloscope- and monitor tubes can be provided with internal graticules. These tubes are available on special order. The type designation of tubes with not illuminable graticules must be completed with |01,|03,|05, etc., while those with illuminable graticules with |02,|04,|06, etc. and those with illuminable graticules and provided with fittings for illumination with |025,|045,|065, etc.

SCREEN DESIGNATION SYSTEM

Code			Screen colour		Persistence
new	old	EIA	fluorescence	phosphorescence	rersisience
BE	В	P11	blue	blue	medium short
GH	Н	P31	green	green	medium short
GJ	G	P1	yellowish green	yellowish green	medium
GL	N	P2	yellowish green	yellowish green	medium short
GM	P	P7	bluish white	yellowish green	long
GR	_	P39	yellowish green	yellowish green	long
LD	L.	P33	orange	orange	very long
w	w	P4	white	white	medium

Persistence is defined as the period of time during which brightness diminishes to 1/10 of its initial value.

Persistence	JEDEC description
less than 1 μ s	very short
1 μs 10 μs	short
10 μs 1 ms	medium short
1 ms100 ms	medium
100 ms 1 s	long
over 1 s	very long

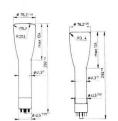
EXPLANATION OF SYMBOLS

A side connection according to JEDEC J1-22

a_1...a_4 anode 1...4
b metal rimband side connection according to JEDEC J1-21
borizontal deflection plates vertical deflection plates vertical deflection factor vertical deflection factor vertical deflection factor f heater grid 1...4
lif heater current lic. internal connection; base connection should not be used as tie point for components k cathode m external conductive coating heating time anode voltage voltage of anode 1...4
Us node voltage voltage of anode 1...4
Us neater voltage
Us; ...Us, heater voltage
Us; ...Us, voltage between grid 1...4 and cathode negative grid bias for the visual extinction of undeflected focused spot (af oscilloscope tubes) and for raster (at monitor tubes)
Us voltages between grid 1 and cathode at cathode control
All voltages refer to cathode unless otherwise stated.
In double-trace oscilloscope tubes the equivalent electrodes are distinguished by subscripts a and b.

D. 7-113 D. 7-113 F

SINGLE TRACE OSCILLOSCOPE TUBE



with spherical faceplate (D. 7-113) and flat faceplate (D. 7-113 F) respectively, for medium operating voltages $\,$

Application

in small size portable oscilloscopes for medical and industrial purposes

Screen Types

DB 7-113	DB 7-113 F
DG 7-113	DG 7-113 F
DN 7-113	DN 7-113 F
DP 7-113	DP 7-113 F

System Structure Base Connect
Arrangement of Electrodes: (bottom view) **Base Connections**

Deflection (viewed from screen end)







Deflection Method: electro-static, symmetrical Mediur Focusing Method: 11-pin, electrostatic

Medium-Shell Magnal, 11-pin, JETEC No. B11-66

Minimum Useful Screen Diameter 70 mm

Heating Uf 6.3 V If 600 mA

Typical Operation

Maximum Ratings

 $\begin{array}{ll} U_{a2} = & 2.5 \; kV \\ U_{a1} = & 1 \; kV \end{array}$

U_{a1} = 2 kV U₃₁ = 320...600 V -U_{R1 cut off} = 45...90 V d₁₂ = 39.4...53.5 V/cm d₃₄ = 30...41 V/cm

Accessories

Socket: VST 5 Metallic Shield: ART 1