



NEW / NOS\_ DN7-178\_Tungram\_Cathode\_Ray\_Tube-03\_(1957)\_[=T=]

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US \$17.50  
Approximately £13.75

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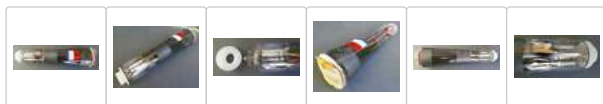
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Item location: BudaPest, Hungary

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Delivery: Varies for items sent from an international location

Payments:

Returns: 30 days money back or replacement, buyer pays return postage | [See details](#)

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Fee



3LO1I 3LO1I Russian mini CRT oscilloscope cathode ray tube

10,849.35 HUF  
Free P&P



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7,439.55 HUF  
+ 3,719.78 HUF P&P  
**Popular**



6LO1I RARE CRT vintage oscilloscope cathode ray tube

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LO-247 CRT oscilloscope cathode ray tube NOS

7,439.55 HUF  
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Tungram 18046 tube NOS

3,096.71 HUF  
+ 2,786.73 HUF P&P



1 x Tungram NOS tube

7,734.04 HUF  
+ 5,254.18 HUF P&P

Description

Postage and payments





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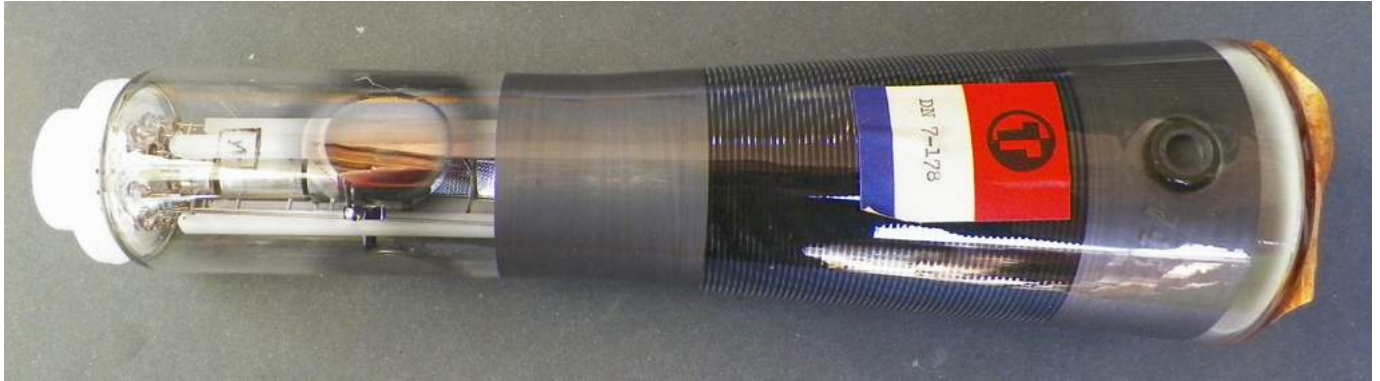
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Last updated on 19 Sep, 2020 13:03:57 BST [View all revisions](#)

### Item specifics

Condition: New: A brand-new, unused, unopened and undamaged item in original retail packaging (where packaging is ... [Read more](#))  
MPN: Does Not Apply  
Brand: Tungfram  
UPC: Does not apply

Model: DN7-178  
Country/Region of Manufacture: Hungary  
Type: NOS Tube



**We have a NEW / NOS DN7-178 Tungfram Cathode Ray Tube-03 (1959**



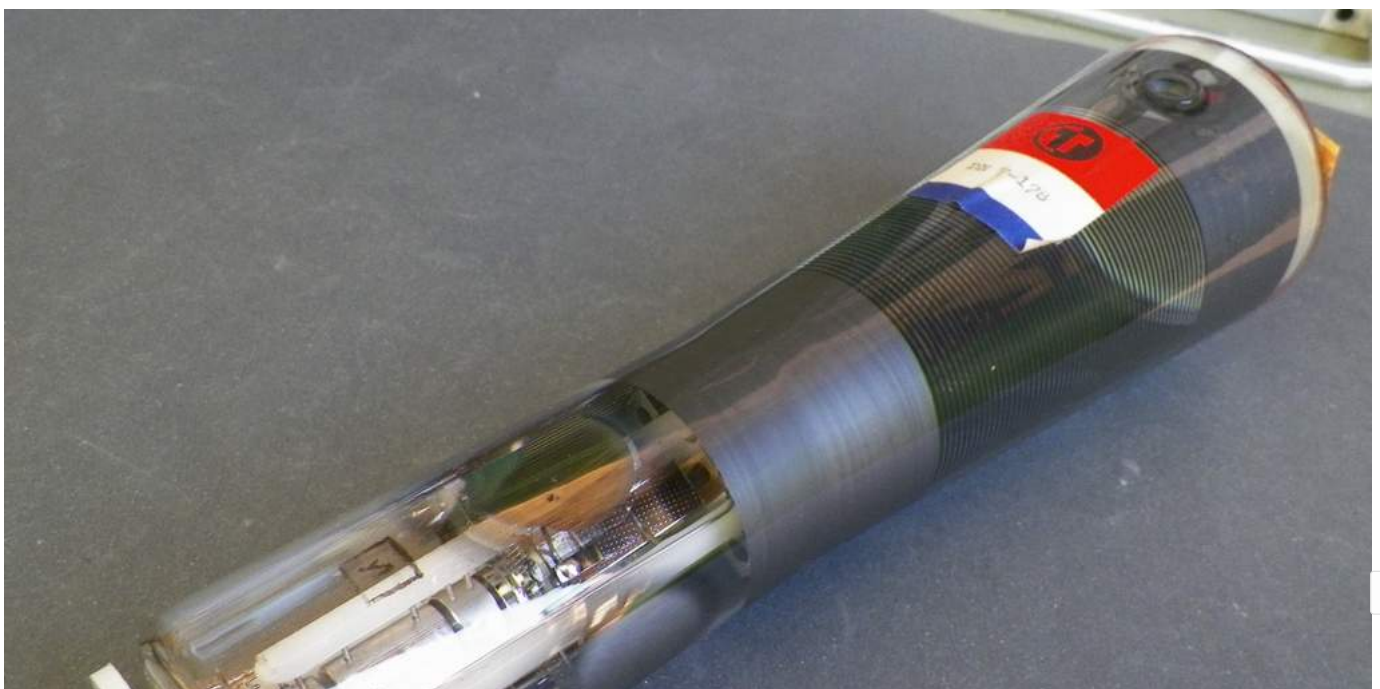
**Made by Tungfram (Hungary).  
Packing : in original factory box.**

The Date Codes are the following :  
"y1" = August 1957.



Weight : 370 grams.  
Length : 268 mm.

The net weight is : 370 grams.

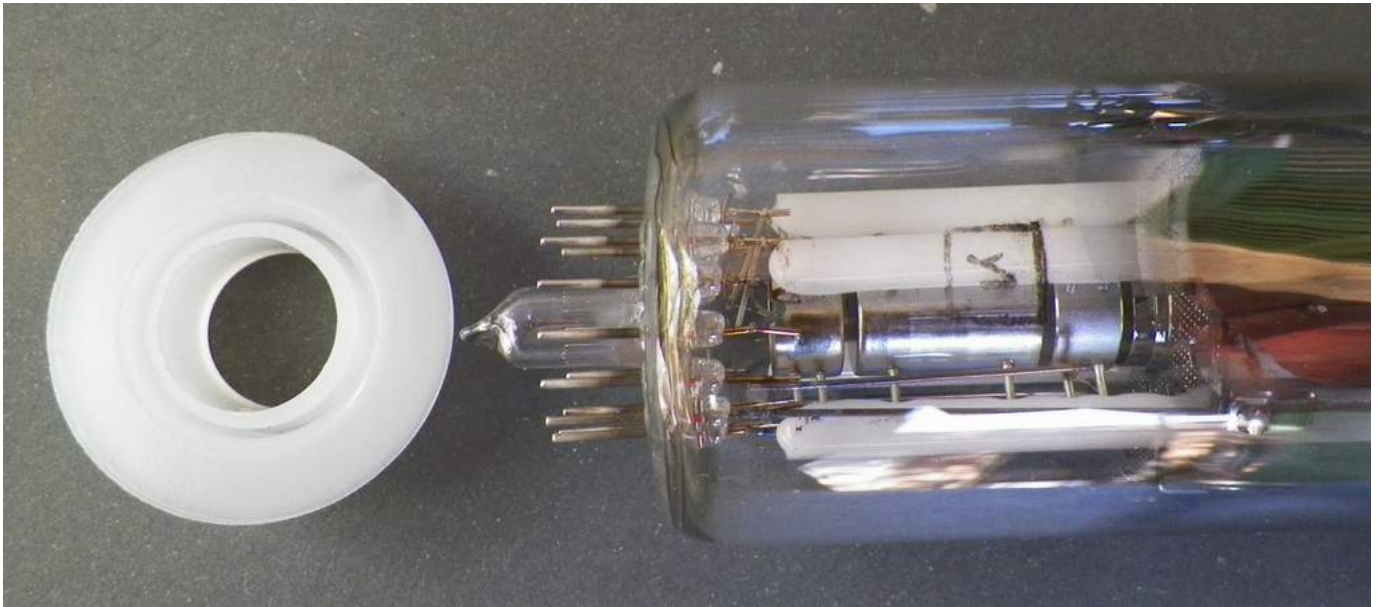




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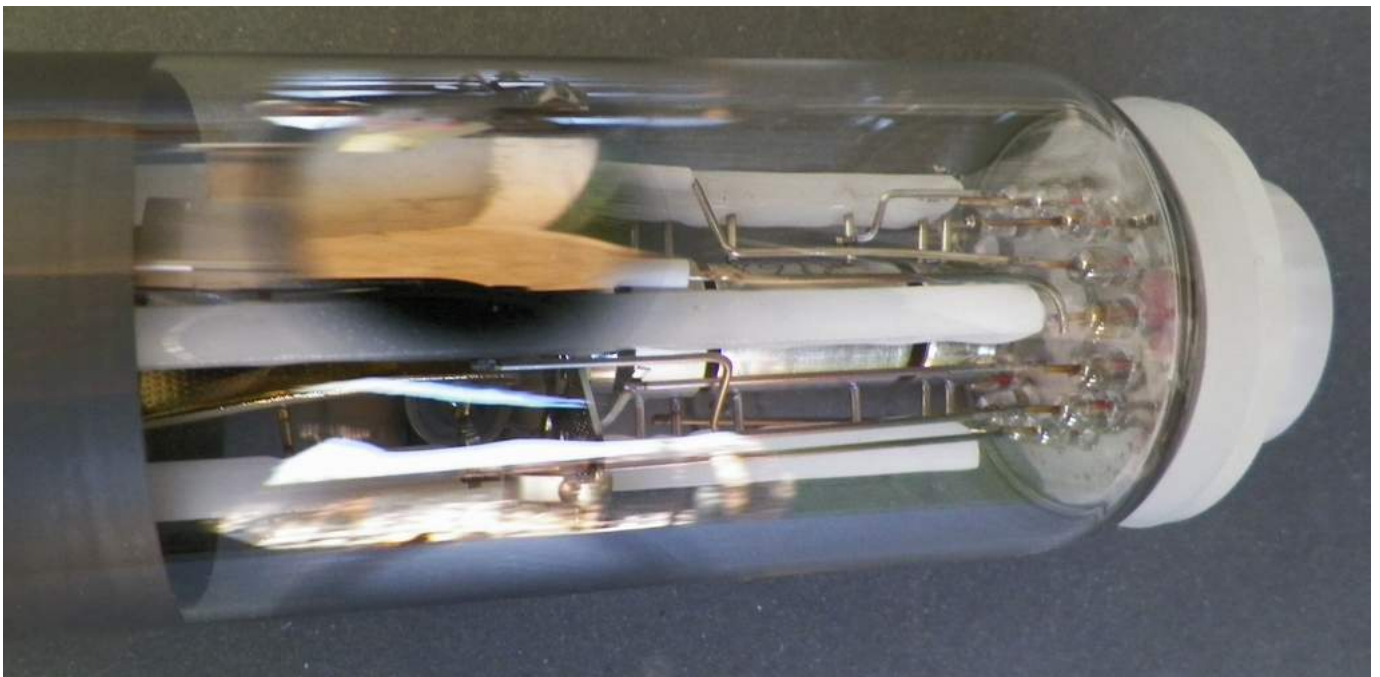
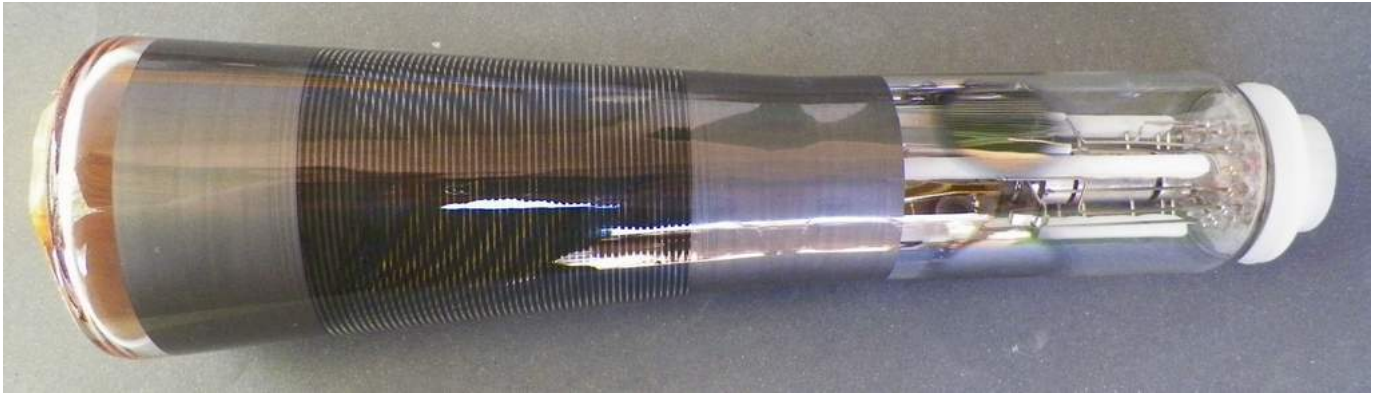
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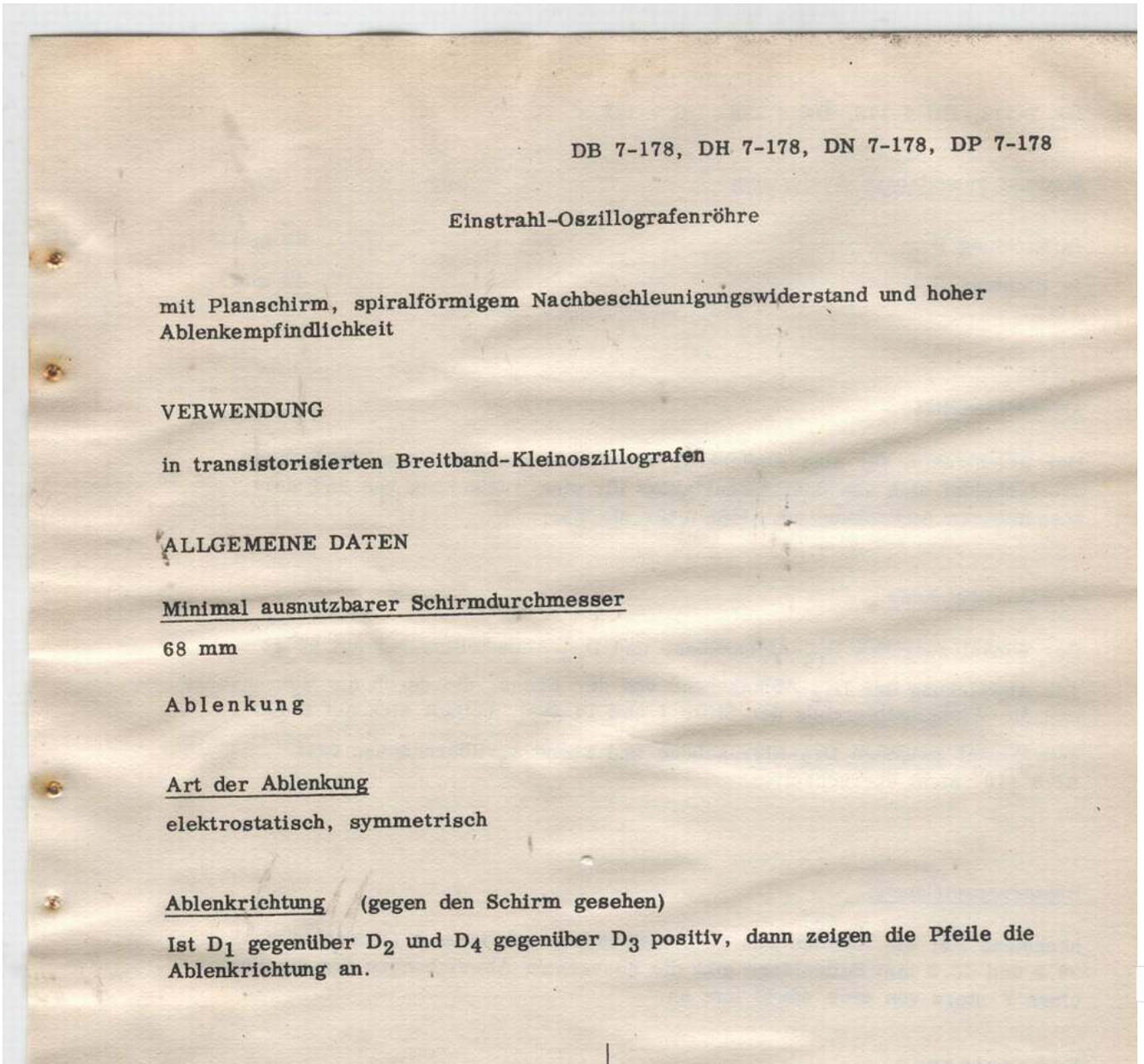
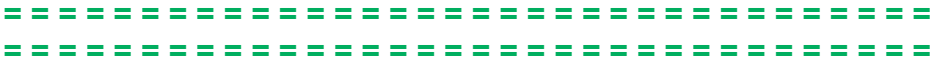
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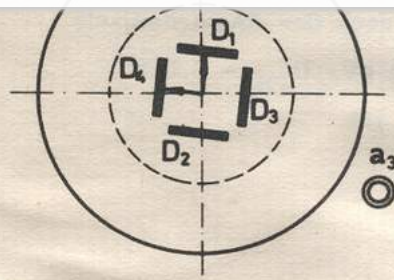
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DB 7-178, DH 7-178, DN 7-178, DP 7-178

Minimal ausnutzbare Auslenkung

in Richtung $D_{12}$	60 mm
in Richtung $D_{34}$	45 mm

Ablenklinearität

Der Ablenkfaktor für eine Auslenkung von 75% der ausnutzbaren Auslenkung unterscheidet sich von dem Ablenkfaktor für eine Auslenkung von 25% der ausnutzbaren Auslenkung um nicht mehr als 2%.

Achsenabweichung

Der Winkel zwischen  $D_{12}$ -Ablenkebene und  $D_{34}$ -Ablenkebene beträgt  $90^{\circ} \pm 1^{\circ}$ .

Die Abweichung der  $D_{12}$ -Ablenkebene von der Ebene, die durch die Röhrenachse und die Winkelhalbierende der Stifte 1 und 14 geht, beläuft sich auf  $6^{\circ} \pm 10^{\circ}$ .

Der Winkel zwischen  $D_{12}$ -Ablenkebene und Ebene  $a_3$ -Röhrenachse darf  $67,5^{\circ} \pm 10^{\circ}$  nicht überschreiten.

Rasterverzeichnung

höchstens 2%; ein Rahmen aus zwei ineinandergeschriebenen Quadraten von 39,2 und 40,8 mm Seitenlänge gibt die äussersten Abweichungen für die Kanten eines Rasters von etwa 40x40 mm an.

Fokussierung



bei  $U_{a3} = 2 \text{ kV}$ ,  $U_{a2a} = 0,5 \text{ kV}$ ,  $U_{a2b} = 0,5 \text{ kV}$ ,  
 $U_{a2c} = 0,5 \text{ kV}$  und  $I_s = 10 \text{ } \mu\text{A}$

0,65 mm

**Betriebslage**

beliebig

82

DB 7-178, DH 7-178, DN 7-178, DP 7-178

**Gewicht**

etwa 370 g

**Sockel**

14poliger Spezialsockel

**HEIZUNG**

indirekt, durch Gleich- oder Wechselstrom, Parallelspeisung

$$U_f = 6,3 \text{ V}$$

$$I_f \approx 300 \text{ mA}$$

**KAPAZITÄTEN**

$$C_{g1} = 3,5 \text{ pF}$$

$$C_k = 2,6 \text{ pF}$$

$$C_{d12} = 1,7 \text{ pF}$$

$$C_{d34} = 1,6 \text{ pF}$$

$$C_{d1} = 3,5 \text{ pF}$$

$$C_{d2} = 3,5 \text{ pF}$$

$$C_{d3} = 3,0 \text{ pF}$$

$$C_{d4} = 3,0 \text{ pF}$$



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DB 7-178, DH 7-178, DN 7-178, DP 7-178

BETRIEBSDATEN

$U_{a3}^{1/}$	=	2000	4000	V
$U_{a2a}$	=	500	1000	V
$U_{a2b}^{2/}$	=	475...525	950...1050	V
$U_{a2c}^{3/}$	=	450...550	900...1100	V
$U_{a1}^{4/}$	=	17...83	35...165	V
$-U_{g1} \text{ sperr}$	=	15...30	30...60 <sup>5/</sup>	V
$AF_{d34}$	=	1,46...1,86	0,73...0,93	mm/V
$AF_{d12}$	=	0,50...0,64	0,25...0,32	mm/V







- 2/ Um eine maximale Linienschärfe zu erzielen ist das mittlere Potential der Ablenkplatten gleich dem Potential von  $a_{2b}$  zu wählen. Die Variation von  $U_{a2b}$  gestattet eine geringe Astigmatismuskorrektur.
- 3/ Durch Änderung der Spannung an  $a_{2c}$  können Kissen- und Tonnenverzeichnungen weitgehend unterdrückt werden.
- 4/ bei Berechnung des Spannungsteilers für die Spannung an  $a_1$  muss  $I_{a1}$  mit  $-15...+10 \mu A$  berücksichtigt werden
- 5/ für einen Strahlstrom von  $10 \mu A$  ist eine Steuerspannung von max 25 V erforderlich

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DB 7-178, DH 7-178, DN 7-178, DP 7-178

GRENZDATEN<sup>1/</sup>

$U_{a3}$	=	5000	V
$U_{a3 \text{ min}}$	=	1200	V
$U_{a2a}$	=	1600	V
$U_{a2a \text{ min}}$	=	500	V
$U_{a2b}$	=	2100	V
$U_{a2b \text{ min}}$	=	300	V
$U_{a2c}$	=	2200	V
$U_{a1}$	=	1000	V
$U_{a3}/U_{a2}$	=	4	
$-U_{g1}$	=	200	V
$U_{g1}$	=	0	V
$U_{g1 \text{ s}}$	=	2	V
$U_{a2-d}$	=	500	V
$U_{fk}$	=	125	V
$U_{-fk}$	=	200	V
$I_k$	=	200	$\mu A$
$N_s$	=	3	$mW/cm^2$
$R_{g1}$	=	1,5	MOhm
$R_d^{2/}$	=	50	kOhm



1/ Bezugspunkt für alle Spannungswerte ist die Katode

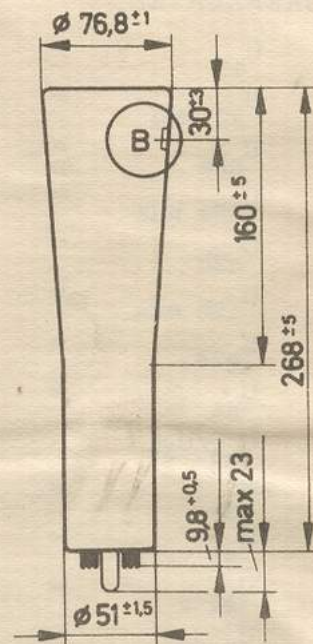
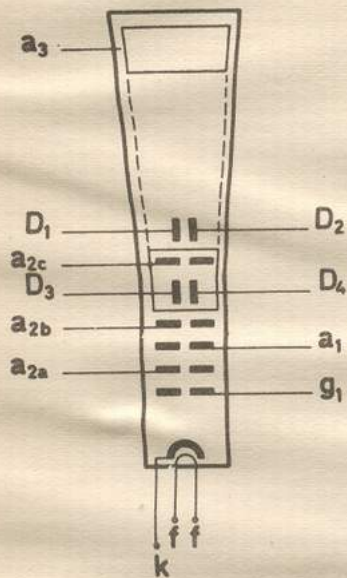
2/ Plattenableitwiderstände sollten untereinander möglichst gleich sein.

Wenn der Elektronenstrahl voll ausgelenkt wird, übernehmen die Ablenkplatten einen Teil des Strahlstromes. Um Verzerrungen zu vermeiden, verwende man in diesem Fall Ablenkverstärker niedriger Ausgangsimpedanz.

DB 7-178, DH 7-178, DN 7-178, DP 7-178

ELEKTRODENANORDNUNG

ABMESSUNGEN, mm



SOCKELSCHALTUNG (gegen den Sockel gesehen)



- 1 = f
- 2 = k
- 3 = g<sub>1</sub>
- 4 = a<sub>1</sub>
- 5 = a<sub>2c</sub>
- 6 = D<sub>3</sub>
- 7 = D<sub>4</sub>



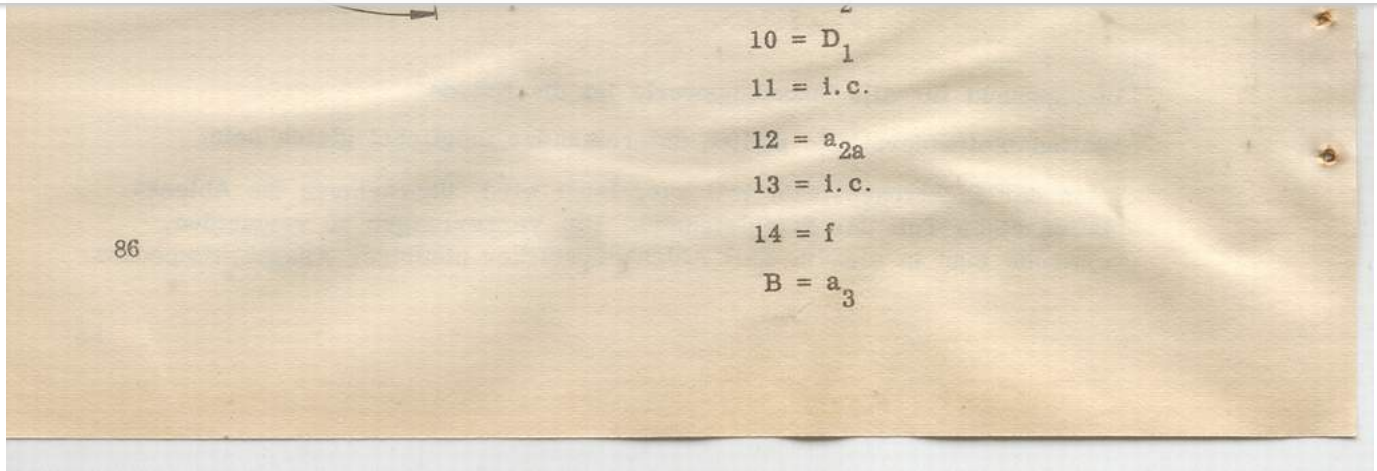
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**TERMS :**

Winning bidder pays actual shipping cost.  
(It is rate of safety casing,registering and air-mailing).

The net weight of the DN7-178 Tungfram Oszilloscope Tube is : 370 grams.  
The gross weight of the packaged goods is : ~ 1,975 grams.

Postal shipment cost to every country in Europe : 25.00 USD.  
Postal shipment cost to every country outside Europe : 30.00 USD.



Paying method:  
-per PayPal,  
-per Bank Transferring.



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