

Dieter's Nixie Tube Data Archive

This file is a part of Dieter's Nixie- and display tubes data archive

If you have more datasheets, articles, books, pictures or other information about Nixie tubes or other display devices please let me know.

Thank you!

Document in this file	Telefunken tube data book
Display devices in this document	ZM1020, ZM1021, ZM1022, ZM1023, ZM1080, ZM1082, ZM1100, ZM1102, ZM1120, ZM1122

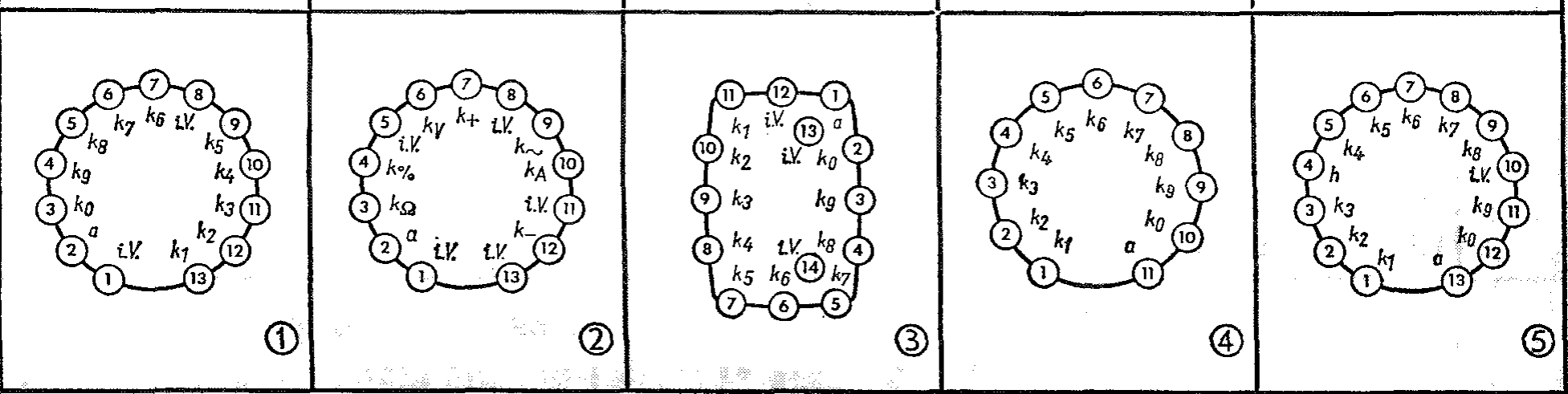
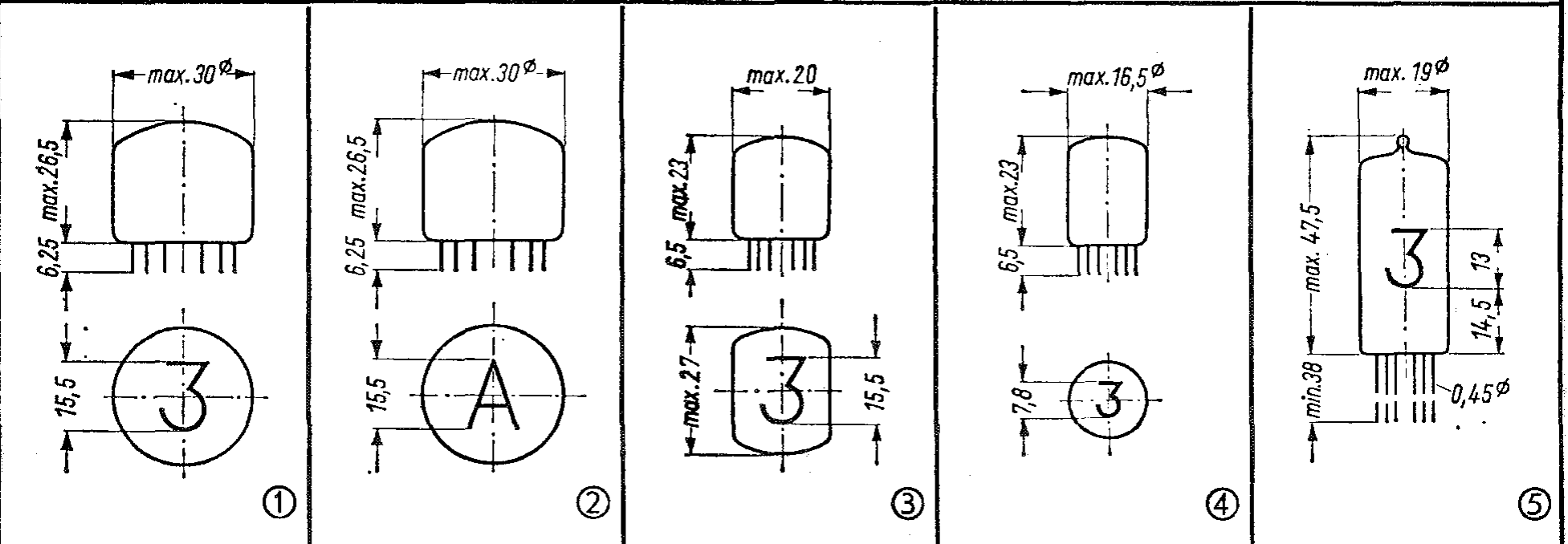
Ziffern- und Zeichen-Anzeige-Röhren · Numerals- and Symbols indicating tubes

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Mit Farbfilter-Überzug · With color filter film Ohne Farbfilter-Überzug · Without color filter film		ZM 1020 ZM 1022	ZM 1021 ZM 1023	ZM 1100 ZM 1102	ZM 1120 ZM 1122	ZM 1080 ZM 1082	
Ziffern · Zeichen Numerals · Symbols		0...9	+ - ~ A V Ω %	0...9	0...9	0...9	
Zeichenhöhe · Height of symbol Auslesung · Read out		15,5 frontal at front	15,5 frontal at front	15,5 frontal at front	7,8 frontal at front	13,0 seitlich at side	mm
Allgemeine Daten · General data							
Betriebsspannung · Supply voltage	U_b min	160	160	170	170	170	V
Kathodenstrom · Cathode current	I_k	1...2,5	1...2,5	1,5...3	0,7...1,4	1,5...2,5	mA
Zündspannung · Breakdown voltage	U_Z	≤ 160	≤ 160	≤ 170	≤ 170	≤ 170	V
Brennspannung · Operating voltage	U_{aB}	ca. 140	ca. 140	145	145	140	V
Vorwiderstand · Input resistor							
bei $U_b = 200$ V		33	33	24	56	33	kΩ
$U_b = 250$ V		56	56	47	100	56	kΩ
$U_b = 300$ V		86	86	68	150	86	kΩ
Absolute Grenzwerte · Absolute maximum ratings							
Betriebsspannung · Supply voltage	U_b min	160	160	170	170	170	V
Kathodenstrom · Cathode current	I_k min	1	1	1,5	0,7	1,5	mA
	I_k max	2,5	2,5	3	1,4	2,5	mA
Kathodenvorspannung Cathodes bias voltage	U_{kk} max	120	120	120	120	—	V
Kolbentemperatur · Bulb temperature	t_{Kolben}	-50 ... +70	-50 ... +70	-50 ... +70	-50 ... +70	-50 ... +70	°C
Einbau · Mounting position		Stift 8 oben Pin 8 above	Stift 8 oben Pin 8 above	Stift 6 oben Pin 6 above	Stift 7 oben Pin 7 above	Draht 7 vorn wire 7 at front	

Abmessungen · Dimensions

Sockelschaltung · Base connection



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