



Cold Cathode devices indicating tubes book 2 part 3

Type No.	Description	Characters Displayed	Character Height (mm)	Minimum Supply Voltage (V)	Maintaining Voltage (V)	Recommended Cathode Current (mA)	Base
ZM1000 ZM1000R	In line, side-viewing indication As ZM1000 but with red filter	Numbers 0-9	14	170	—	2.5	Special 14-pin
ZM1001 ZM1001R	In line, side-viewing indication As ZM1001 but with red filter	Characters +, -, ~, X, Y, Z	10 to 14	170	—	2.5	Special 14-pin
ZM1020 ZM1022	In line, end-viewing indication Incorporates a red filter As ZM1020 but without red filter	Numbers 0-9	15.5	170	140	2.0	B13B
ZM1021 ZM1023	In line, end-viewing indication Incorporates a red filter As ZM1021 but without red filter	Characters A, V, Ω, +, -, %, ~	15.5	170	140	2.0	B13B
ZM1080 ZM1082	In line, side-viewing indication Incorporates a red filter As ZM1080 but without red filter	Numbers 0-9	13	170	140	2.0	Flying Lead
ZM1081 ZM1083	In line, side-viewing indication Incorporates a red filter As ZM1081 but without red filter	Characters -, +, ~	10.5	170	140	2.0	Flying Lead
			± 2-05	> 7 ± 1-93	> 15	± 1-82	
ZM1162	In line, end-viewing indication Rectangular envelope	Numbers 0-9	15.5	170	140	2.5	Rectangular 14-pin
ZM1163	In line, end-viewing indication Rectangular envelope	Characters -, +, ~, ×	15.5	170	140	2.5	Rectangular 14-pin
ZM1164	In line, end-viewing indication Rectangular envelope	Numbers 0-9 with decimal point on left hand	15.5	170	140	2.5	Rectangular 14-pin
ZM1174 ZM1175	In line, side-viewing indication Incorporates a red filter As ZM1174 but without red filter	Numbers 0-9 with decimal point on left hand	15.5	170	140	2.5	Flying Lead
ZM1176 ZM1177	In line, side-viewing indication Incorporates a red filter As ZM1176 but without red filter	Numbers 0-9 with decimal point on right hand	15.5	170	140	2.5	Flying Lead
ZM1235	In line, side-viewing indication Inverted version of ZM1170 (leads mounted at top)	Numbers 0-9	15.5	170	140	10 to 18mA peak	Flying Lead
ZM1237	In line, side-viewing indication (leads mounted at top)	Characters ½, ¼, ⅓, ⅒, ⅑, ⅛	15.5	170	140	10 to 18mA peak	Flying Lead
ZM1251	Flat pack, alpha-numeric construction dot matrix	7 × 5 dot matrix with 2 decimal points	9.8	220	145	2mA peak per dot	Special flat lead
ZM1263	In line, side-viewing indication Incorporates a red filter	Characters -, +, ~, *	10.5	170	140	2.5	Flying Lead

* This is a symbol shaped like a Catherine-wheel on type ZM1263 that may be used for special indications, e.g. fault condition.