

ZM1005 INDICATOR TUBE

Long-life cold-cathode ten-digit indicator tube for side viewing.
The tube is designed for time-sharing (pulse) applications.

QUICK REFERENCE DATA

Numeral height	Approx. 14	mm
Numerals	0 1 2 3 4 5 6 7 8 9	
Decimal point	To the left of the numerals	
Supply voltage	V_{ba} min. 170	V
Anode current peak	(pulse)	
	I_{ap} min. 6	mA
	I_{ap} min. 20	mA
average	I_a min. 2.5	mA

GENERAL

The numerals are 14 mm height and appear on the same base line allowing in-line read out.

PRINCIPLE OF OPERATION

The tube contains ten cathodes in the form of ten numerals and one in the form of a decimal point; a primer, and a common anode. By applying a suitable voltage between the anode and one of the cathodes the corresponding numeral or the decimal point will be covered by a red neon glow.

The primer allows ionization without delay in strobe type or blanking applications.

SHOCK AND VIBRATION

An indication for the ruggedness of the tube is the fact that 95% of the items sampled from the normal production line pass the shock and vibration test specified below without perceptible damage.

Shock: $25g_{peak}$, 10 shocks in one of the three positions of the tube.
Vibration: $2,5g_{peak}$, 50Hz, during 32 hours in each of the three positions of the tube.