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	Raytheon datasheet – Numerical Indicator Tubes – 'Datavue'
Display devices in	CK1916, CK1917, CK1918, CK8754
this document	

File created by Dieter Waechter www.tube-tester.com



K1917 and

:K1918.

DATAVUE"

CK8754 CK1917

NUMERICAL INDICATOR TUBES

CK1916 CK1918

Raytheon DATAVUE" types CK8754, CK1916, CK1917, and CK1918 are aas-filled. cold-cathode, numerical indicator tubes, using a common anode and ten cathodes in the shape of numerals, "O" through "9" and decimal points as described below. The tubes are designed as direct in-line, side-view readout devices in decimally coded read-out applications such as basic counter and computer circuits. Their all-electronic design provides high speed operation with low-power drain requirements. These types feature high reliability, ultra-long life, wide angle viewing, brightness, stability and rugged construction.

Type CK1916 displays 0 to 9 numerals with a decimal to the left of numerals. Type CK1917 displays 0 to 9 numerals with a decimal to the right of numerals. Type CK1918 displays 0 to 9 numerals with decimal points to the left and right of numerals.

ELECTRICAL DATA

olts
olts
ma
mA
mA
olts
olts
5°C
5°C
5

Supply voltage						٠			170 volts de
Anode series resistor (±1%)			٠				٠		8.2K ohms
Minimum cathode current									1.5 mAdc
Maximum cathode current									
Cathode current, nominal									
Maximum decimal point current									
Minimum decimal point current									0.1 mAde
Tube voltage drop at lk = 2.50 mAd									
Life Expectancy (dynamic)									

• Use of highest available supply valtage with appropriate anode resistor is recommended.

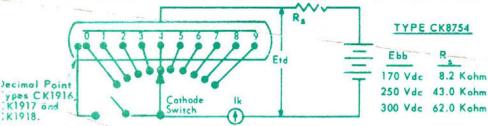


FIGURE 1. BASIC CIRCUIT

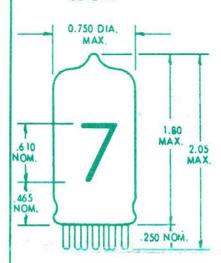
* R is decimal point resistor; R, is resistor for each individual cathode.

Types CK1916, CK1917 and CK1918:	Ebb	Rs		
When the decimal point is operated only when another character is ON:	170 Vdc 250 Vdc 300 Vdc	35	Kohm Kohm Kohm	
	Ebb	Rkt		Rdt
When the decimal point may be operated with or without another character being ON, individual cathode resistors should be used, with no resistor in the anode circuit.		43		72 Kohm 330 Kohm 500 Kohm

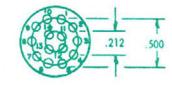
MECHANICAL DATA

Envelope	T53	Glass
Base	Miniature,	Special
Weight		0.5 oz.

CUTLINE



NORMAL VIEWING



BASING

PINS: 0.040 DIA. TYP.

TERMINAL CONNECTIONS

	CK8754	CK1916 CK1917	CK1918
1	K7	K7	K7
2	K5	K5	K5
3	K8	K8	K8
4	Anode	Anode	Anode
5	K1	K1	K1
6	K4	K4	K4
123456789	K2	K2	K2
8	K6	K6	K6
9	K9	K9	K9
10	K3	K3	K3
11	Int. Conn	Dec.Pt.	Dec. Pt. Left
12	No Pin	No Pin	Dec. Pt. Right
13	KO	KO	KO
14	Int. Conn	Int.Conn.	Int.Conn.