

7735, 7735A

Vidicons

Magnetic Focus 1"-Diameter Magnetic Deflection
For Non-Critical Industrial and Consumer
Product Closed-Circuit TV

The 7735A and 7735 are the same as the 7735B except for the following items:

TYPICAL OPERATION AND PERFORMANCE DATA

Low-Voltage Operation

	7735A	7735	
Grid No.1 Voltage for Picture Cutoff ^a	-45 to -100	-45 to -100	V
Lag-Per Cent of Initial Value of Signal-Output Current 1/20 Second After Illumination is Removed: ^b			
Maximum Value.	28	30	%
Limiting Resolution: At center of picture—			
Typical Value	700	700	TV Lines

AVERAGE SENSITIVITY OPERATION

Faceplate Illumination (Highlight).	1	1	fc
Target Voltage ^{c,d}	20 to 40	15 to 55	V
Dark Current ^e	0.02	0.02	μ A
Minimum Signal-Output Current ^f	0.15	0.15	μ A

^a With no blanking voltage on grid No.1.

^b For initial signal-output current of 0.3 microampere and a dark current of 0.02 microampere.

^c The target voltage for each tube must be adjusted to that value which gives the desired operating signal current.

^d Indicated range serves only to illustrate the operating target-voltage range normally encountered.

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- The deflecting circuits must provide extremely linear scanning for good black-level reproduction. Dark-current signal is proportional to the scanning velocity. Any change in scanning velocity produces a black-level error in direct proportion to the change in scanning velocity.
- f Defined as the component of the highlight target current after the dark-current component has been subtracted.

SPURIOUS SIGNAL TEST

Equivalent Number of Raster Lines	Zone 1 Allowed Spots	Zone 2 Allowed Spots
over 4	0	0
4 but not including 3	0	1
3 but not including 1	2	3
1 or less	*	*

Minimum separation between any 2 spots greater than 1 raster line is limited to 16 raster lines.

*Spots of this size are allowed unless concentration causes a smudged appearance.