5.5 CRT DISPLAY

5.5.1 Specifications

The supply voltage is 12.000 DC, +/−0.10V, from a regulated power supply. The room temperature is 25 degrees C.

		Unit	Nominal	Limit
Power Input (1K=30uA),12V		(A)	0.85	1.0
Input Level				
Horizontal (Positive-going Sync)		(V)	–	TTL Compatible
Vertical (Negative-going Sync)		(V)	·	TTL Compatible
Video (Positive-White)		(V)	–	TTL Compatible
Video Bandwidth (10Hz - 12MHz)		(dB)	–	+/− 3
Horizontal Retrace		(μSec)	8.2	9.5
Vertical Retrace		(μSec)	700	1,000
Scanning Frequency				
Horizontal		(Hz)	15,840	+/−500
Vertical		(Hz)	–	47 - 63
Resolution at Center		(Lines)	–	800
Resolution at Corner		(Lines)	–	680
Geometric Distortion				
Pin/Barrel distortion on top/bottom		(Inch)	–	+/−0.05
	on Sides	(Inch)	–	+/−0.038
Trapezoidal Distortion top/bottom		(Inch)	–	0.150
	left/right	(Inch)	–	0.100
Parellogram Distortion		(Inch)	–	0.100
Raster Tilt		(Degree)	–	+/− 1.0
Linearity		(%)	–	+/−10
Vertical Size				
Video (24 rows)		(Inch)	4.5	+/−0.20
Horizontal Size				
Video (80 characters/Row)		(Inch)	6	+/−0.20