

# THOMAS ELECTRONICS

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## ENGINEERING DATA SHEET

**MINI – MONITOR**  
**TE P/N 01M286P45**  
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### BRIEF OUTLINE DESCRIPTION

Miniature 0.5 diagonal black / white CRT with integrated deflection coil, deflection and video amplifiers for NTSC display. Suitable for viewfinder and portable design applications.

### CRT DESIGN

Useful Area	11 x 7.2 mm
Overall Length (CRT)	65mm
Deflection Angle	39 Degrees
Anode Voltage	2, 200 Volts
Resolution	400 TV Lines
	Typical
Luminance	60 fL.
Phosphor	P45 - White
Maximum Defect Size	60 Microns
Weight, CRT Only	4 Grams

### DEFLECTION DESIGN

Run Frequency	H 14.7 KHz to 16.5 KHz V 46.0 to 58.0 Hz
Non-Linearity	7% Maximum
Trapezoidal Distortion	3% Maximum
Pincushion Distortion	3% Maximum
Weight, Coil Only	12 Grams

### MONITOR OPERATION

Input Signal, NTSC	1.0v p-p
Input Impedance	10.0 Kohm
Video Gain	14 dB Minimum
Frequency	1.5 MHz peak
Power Supply Voltage	4.7 Volts
	±0.01Volts
Power Consumption, Total	0.63 Watt Typical
Weight Total	35 Grams Maximum

### MECHANICAL DESIGN

Board Dimensions	50mm x 23mm
Mating Connector	CN7002
Pin Out	
Pin 1	Video
Pin 2	Ground
Pin 3	Power Supply