



Astronautics Corporation of America

6" MFCD

6" MULTIFUNCTION COLOR DISPLAY (MFCD)

The 6" Multifunction Color Display Unit (MFCD) is an Active Matrix Color Liquid Display with a useable screen area of 6.25" x 6.25". The display units are designed for multifunction applications where accuracy, reliability, and high resolution are requirements. The full color (RGB) capabilities also allow the MFCD to be utilized as a sensor video and Digital Map Display. The MFCD is optionally available with internal processing and graphics generation.



Astronautics 6" Color Liquid Crystal Multifunction Display features include:

- Active Matrix Color Liquid Crystal Display
- High Brightness, High Contrast
- 20 Multifunction Keys, RS-422 and/or Discrete
- Brightness Control
- Contrast Enhancement Filter
- Night Vision Goggle (NVG) Compatibility
- Selectable Brightness Modes: Day, Night, Auto
- No Geometric Distortion or Linearity Error
- Modular, Rugged Construction
- Designed to Military Standards
- Built-in-Test (BIT), RS-422 and/or Discrete Output of status
- 256 Shades of Gray

6" Multifunction Color Display (MFCD)

OPTICAL SPECIFICATIONS	
Useable Display Area	6.25 x 6.25 Inch
Pixel Resolution	780 x 780
Display Luminance	200 fL
Colors	256 Shades of Gray
VIDEO SPECIFICATIONS	
Video Interfaces Available	RS-170 Monochrome/RS-170A RGB, CCIR-D, other video options available
Video Timing	Per RS-170
Input Impedance	75 OHMS \pm 2% Triax Video Connectors
RS-422	Keycodes, Aspect Ratio Select, BIT, Day/Night
Discrete	Same as above
MECHANICAL SPECIFICATIONS	
Chassis	Aluminum
Envelope	7.5" x 7.5" x 10"
Weight	13.0 Pounds
POWER SPECIFICATIONS	
Power	28 VDC 115 VAC, 400 HZ Single Phase (Option) 65 Watts Power Consumption (AVG) (Without Heaters)
RELIABILITY/MAINTAINABILITY	
Built-in-Test (BIT)	Automatic Fault Monitoring Identification of Failed CCA via RS-422
Reliability	6,000 hours MTBF (per Mil-Std-217D)
Maintainability	30 Min. MTTR
ENVIRONMENTAL SPECIFICATIONS	
Temperature	-40°C to +55°C Operating(Continuous) 71°C Intermittent
Altitude	0 to 55,000 Feet
Vibration	5g, 50-2000 Hz
Shock	15g, 11 milliseconds
EMI/EMC	Per Mil-Std-461
Humidity	Up to 100% Condensing

FOR MORE INFORMATION ON THIS OR ANY OF OUR OTHER PRODUCTS/SYSTEMS PLEASE CONTACT:
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OR VISIT OUR WEBSITE www.astronautics.com

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