

New KDM-340 display modules feature a variety of lighting and performance options

Korry now offers its KDM-340 display modules in four configurations, with fluorescent or LED lighting, each in standard or high-performance versions. Every module conforms to the envelope of an ARINC 3ATI instrument. For a detailed comparison, refer to the specifications table on the back of this sheet. LED units will be available for delivery the fourth quarter of 2008.

Our extended line of KDM-340 modules offers options with new advantages:

- Very high reliability
- Life-of-the-aircraft, solid-state LED light source
- RGB LED array provides light-source redundancy
- Reduced weight
- Cooler operating temperature
- Lowest power consumption, for increased power budget for the LRU
- No high voltage in drive circuitry, eliminating the risk of shock
- Virtually instant warm-up
- Full night-vision compliance (NVIS Class B)
- Vivid primary colors
- Saturated red in NVIS Class B
- Reduced depth for additional LRU features
- Standard and custom viewing angle options



In addition to the KDM-340 module above, Korry offers other KDM products in a range of standard sizes: 3x4, 4x5, 6x8, 8x10, 5x5, and 6.25x6.25 inches.

For more information or a complete data package, email info@korry.com, call (206) 281-1300, or visit www.korry.com.

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AS9100

Specifications	300 x 300 Standard 27170-502 27170-501	300 x 300 High Performance 23715-501 23715-503	480 x 480 LED Standard 39367-101 39368-101	480 x 480 LED High Performance 39367-001 39368-001
General				
AMLCD	TN-TFT with heater	TN-TFT with heater	TN-TFT heater optional	TN-TFT with heater
Active area (H x V)	61.2 x 61.2 mm	61.2 x 61.2 mm	60.48 x 60.48 mm	60.48 x 60.48 mm
Pixel arrangement	RGB stripe	RGB stripe	RGB stripe	RGB stripe
Pixel format (H x V)	300 x 300	300 x 300	480 x 480	480 x 480
Resolution (color groups per inch)	124 dpi	124 dpi	202 dpi	202 dpi
Outline dimensions (max.)	78.0 x 78.0 x 62.0 mm	78.0 x 78.0 x 62.0 mm	78.0 x 78.0 x ~50.0 mm	78.0 x 78.0 x ~50.0 mm
Weight	325 g	325 g	250 g	250 g
Optical				
Backlight	Cold cathode fluorescent lamp	Hot cathode fluorescent lamp	RGB LED	RGB LED
Display mode	Normally white, compensated TN	Normally white, compensated TN	Normally white, compensated TN	Normally white, compensated TN
Gray shades (colors)	256 (16,777,276)	256 (16,777,276)	64 (262,144)	64 (262,144)
Luminance (day max.)	150 fL (685 cd/m ²)	200 fL (685 cd/m ²)	120 fL (420 cd/m ²)	200 fL (685 cd/m ²)
Luminance (night max.)	<0.18 fL (0.62 cd/m ²)	<0.05 fL (0.17 cd/m ²)	<0.1 fL (0.34 cd/m ²)	<0.05 fL (0.17 cd/m ²)
Luminance distribution	Wide, ±55H, +40/-25 V	Wide (optional NVIS narrow)	Wide	Wide, narrow, 4 quadrant tilted
Contrast viewing envelope	±55°H, +40/-25° V	±55°H, ±35° V	±60°H, +45°/-40° V	±60°H, +45°/-40° V
Contrast ratio: dark ambient	200:1@ 0H/0V, 25:1 over VE	250:1@ 0H/0V, 15:1 over VE	300:1@ 0H/0V, 15:1 over VE	300:1@ 0H/0V, 15:1 over VE
Contrast ratio: high ambient	3:1 @ 8,000 fc	10:1 @ 0H/0V, 2,000 fL/10,000 fc	3:1 @ 8,000 fc	10:1 @ 0H/0V, 2,000 fL/10,000 fc
Reflectance: specular	1.0%	0.90%	0.80%	0.80%
Reflectance: diffuse	0.1%	0.09%	0.07%	0.07%
Interface				
Display interface	8 bit RGB digital	8 bit RGB digital	6 bit RGB digital	6 bit RGB digital
Voltage	+28 VDC, +5 VDC, +24 VDC, +14 VDC, -8 VDC	+28 VDC, +5 VDC, +24 VDC, +14 VDC, -8 VDC	+24 VDC, +3.3 VDC	+24 VDC, +3.3 VDC
Power	Day max. heaters off: 6W Day max. heaters on: 40W	Day max. heaters off: 12W Day max. heaters on: 50W	Day max. heaters off: 3.5W Day max. + AMLCD heater on: 20W (optional)	Day max. heaters off: 4.5W Day max. heaters on: 22W
Response time	42 ms @ 40°C	42 ms @ 40°C	42 ms @ 40°C	42 ms @ 40°C
Start-up time	3 seconds	7 - 10 seconds	< 200 ms	< 200 ms
Backlight life	40,000 hours	20,000 hours	80,000 hours	50,000 hours
Environmental				
Environmental	D0-160D	D0-160C, MIL-STD-810E	D0-160E	D0-160E, MIL-STD-810F
MTBF (MIL-STD-217)	30,000 hrs., 40°C AIC	16,000 hrs., 55°C AIC	50,000 hrs., 35°C AIC	50,000 hrs., 35°C AIC
Operating temp. range	-20°C to +70°C	-55°C to +85°C	0°C to +85°C (-40°C optional)	-40°C to +85°C
Warm up from -40°C: functional	< 2 minutes	< 2 minutes	< 1 minute	< 1 minute
Warm up from -40°C: full perf.	15 minutes	10 minutes	5 minutes	5 minutes
Performance				
Altitude	+55,000 ft	+55,000 ft	+55,000 ft	+55,000 ft
Vibration	0.1" double amplitude (peak to peak) 5-15Hz; 0.01" at 15-55Hz 1.5 g peak 55-500 Hz	0.04 g ² /Hz, 100-500Hz	0.05 g ² /Hz, 100-500Hz	0.05 g ² /Hz, 100-500Hz
Clearing point	>95° C	>95° C	>95° C	>95° C
Storage temperature	-55°C to + 85° C	-62°C to + 85° C	-55°C to + 85° C	-55°C to + 85° C