

# EL – THIN FILM ELECTROLUMINESCENT DISPLAYS

## DID YOU KNOW?

- Wide temp versions available up to -60 to +85 °C



MODEL <small>– All resolutions for EL displays are indicated by the model number.</small>	Part Number <sup>1</sup>	Diagonal Size	Pixel Pitch	Brightness Typical @ Max. Frame Rate	Power Typical @ Max. Frame Rate	Operating Temperature	Video Interface	Other Features <sup>2</sup>
EL160.80.50 IN ET ET CC	996-0267-15LF 996-0267-20LF 996-0267-18LF 996-0267-17LF	3.5" (8.93 cm)	0.5 mm	107 cd/m <sup>2</sup> (240 Hz)	4.4 W (240 Hz)	0 ~ +55 °C -25 ~ +65 °C -40 ~ +65 °C -40 ~ +65 °C	4 bit LCD	Standard product Dimming capability IN with locking connector ET with conformal coating
EL160.120.39	996-0303-00LF	3.1" (7.79 cm)	0.39 mm	70 cd/m <sup>2</sup> (150 Hz)	3.0 W (150 Hz)	-50 ~ +70 °C	4 bit LCD	Dimming, locking connector
EL240.128.45 INT	996-0301-01LF 996-0301-02LF	4.8" (12.2 cm)	0.45 mm	130 cd/m <sup>2</sup> (240 Hz)	5.8 W (240 Hz)	-20 ~ +70 °C	8 bit µP 4 bit LCD	Built-in RAiO RA8835A controller, dimming, locking connector
EL320.240 FA3 FA3 CC	997-3377-00LF 997-3377-01LF	4.9" (12.4 cm)	0.012" (0.31 mm)	85 cd/m <sup>2</sup> (325 Hz)	4.7 W (325 Hz)	-50 ~ +85 °C	4 bit TFT	Red/Green/Yellow multi-color, 16 colors, dimming, locking connector FA3 with conformal coating
EL320.240.36 AG AGL IN IN AG ET ET CC	996-0273-01LF 996-0273-60LF 996-0273-62LF 996-0273-02LF 996-0273-61LF 996-0273-03LF 996-0273-30LF	5.7" (14.4 cm)	0.36 mm	50 cd/m <sup>2</sup> (120 Hz)	7.1 W (120 Hz)	0 ~ +55 °C 0 ~ +55 °C 0 ~ +55 °C -25 ~ +65 °C -25 ~ +65 °C -40 ~ +65 °C -40 ~ +65 °C	4 bit LCD	Standard product Anti-glare film AG with locking connector Dimming IN with anti-glare film Locking connector, dimming ET with conformal coating
EL320.240.36 HB HB NE HB NE CC HB CC HB SE	996-0292-00LF 996-0292-03LF 996-0292-02LF 996-0292-06LF 996-0292-07LF	5.7" (14.4 cm)	0.36 mm	150 cd/m <sup>2</sup> (247 Hz)	5.5 W (247 Hz)	-40 ~ +85 °C	4 bit LCD	High bright, dimming, locking connector, broad input voltage No mounting ears No mounting ears, conformal coating Conformal coating HB with only top mounting ears
EL320.256 F6 FD6 FD7 FD7 HB FD8 V2	996-5076-00LF 996-5087-00LF 996-5089-00LF 996-5089-03LF 996-5091-00LF	4.8" (12.2 cm)	0.3 mm	77 cd/m <sup>2</sup> (60 Hz) 25 cd/m <sup>2</sup> (60 Hz) 55 cd/m <sup>2</sup> (120 Hz) 81 cd/m <sup>2</sup> (150 Hz) 105 cd/m <sup>2</sup> (200 Hz)	4.0 W (60 Hz) 6.0 W (120 Hz) 7.5 W (150 Hz) 9.0 W (200 Hz)	-25 ~ +65 °C	1 or 2 bit LCD	Non-ICE, dimming, broad input voltage F6 with ICE FD7 with higher brightness
EL480.240 PR1	996-0247-04	6.4" (16.4 cm)	0.305 mm	50 cd/m <sup>2</sup> (120 Hz)	6.5 W (120 Hz)	-25 ~ +65 °C	4 bit LCD	ICEBrite
EL512.256 H2 H2 FRA H2 FRB H3 H3 FRA H3 FRB H3 ET FRB	997-3214-00LF 997-3215-00LF 997-3216-00LF 996-5052-00LF 996-5059-00LF 996-5060-00LF 996-2436-00LF	8.6" (21.8 cm)	0.38 mm	65 cd/m <sup>2</sup> (70 Hz)	6.0 W (70 Hz)	0 ~ +55 °C 0 ~ +55 °C 0 ~ +55 °C -25 ~ +65 °C -25 ~ +65 °C -25 ~ +65 °C -40 ~ +85 °C	1 or 2 bit LCD	Dimming, broad input voltage H2 with aluminum frame H2 with steel frame Dimming, Broad input voltage H3 with aluminum frame H3 with steel frame H3 FRB with extended temperature

### Notes:

1. The "LF" suffix on part numbers indicates that the product is in compliance with the EU RoHS requirements. Those products without this suffix are not compliant.
2. For special applications where lead-free solder presents reliability concerns, some products may be available with leaded solder. Please consult your Planar sales contact.

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EL640.200	SK SK CC	996-0290-01LF 996-0290-02LF	8.9" (22.6 cm)	0.33 mm x 0.396 mm	81 cd/m <sup>2</sup> (240 Hz)	7.6 W (240 Hz)	-40 ~ +85 °C	4 bit (Buffered) 8 bit (Non-buffered)	ICEBrite, two modes (buffered and non-buffered) dimming, and locking connector SK with conformal coating
EL640.400	C2 C2 FRA C3 C3 FRA CD3 FRA	997-3217-00LF 997-3218-00LF 996-5056-00LF 996-5062-00LF 996-5078-00LF	9.1" (23 cm)	0.3 mm	53 cd/m <sup>2</sup> (70 Hz)  21 cd/m <sup>2</sup> (70 Hz)	11.0 W (70 Hz)	0 ~ +55 °C  -25 ~ +65 °C  -25 ~ +65 °C	1 or 2 bit LCD	Non-ICE, dimming, wide input voltage  C2 with aluminum frame  Non-ICE, dimming, wide input voltage Non-ICE, dimming, wide input voltage, aluminum frame C3 with ICE and aluminum frame
EL640.400	CB1 FRA CB3 FRA CD4 FRA	996-5073-00LF 996-5078-00LF 996-5085-00LF E0064450301LF	9.1" (23 cm)	0.3 mm	53 cd/m <sup>2</sup> (70 Hz) 53 cd/m <sup>2</sup> (70 Hz) 22 cd/m <sup>2</sup> (70 Hz)	11.0 W (70 Hz)	0 ~ +55 °C	1 or 2 bit LCD	Non-ICE, dimming, +5 and +12 V input voltage, aluminum frame CB series display with a VH of 24 V  Nominal input, includes frame Dimming, +5 and +12 V input, aluminum frame, ICE display
EL640.480	AF1 AF1 AG AF1 ET	996-0270-00LF 996-0270-01LF 996-0270-05LF	6.4" (16.2 cm)	0.2 mm	65 cd/m <sup>2</sup> (120 Hz)	4.5 W (120 Hz)	-5 ~ +55 °C -5 ~ +55 °C -40 ~ +85 °C	8 bit LCD	ICEBrite, dual panel interface AF1 with anti-glare film AF1 with extended temperature, locking connector, dimming
EL640.480	AG1 AG1 AG AG1 ET  AG1 ET CC	996-0269-00LF 996-0269-01LF 996-0269-03  996-0269-05	8.1" (20.5 cm)	0.26 mm	55 cd/m <sup>2</sup> (120 Hz)	6.5 W (120 Hz)	-5 ~ +55 °C -5 ~ +55 °C -40 ~ +85 °C  -40 ~ +85 °C	8 bit LCD	ICEBrite, dual panel interface AG1 with anti-glare film Extended temperature, wide input voltage AG1 ET with conformal coating
EL640.480	AM1 AM1 AG AM8 ET AM8 ET CC AM8 IN AM8 ETL AM8 ETL CC	996-0268-00LF 996-0268-02LF 996-0268-16LF 996-0268-20LF 996-0268-27LF 996-0268-28LF 996-02869-29LF	10.4" (26.4 cm)	0.33 mm	55 cd/m <sup>2</sup> (120 Hz)	11.0 W (120 Hz)	-5 ~ +55 °C -5 ~ +55 °C -60 ~ +65 °C -60 ~ +65 °C -25 ~ +65 °C -60 ~ +65 °C -60 ~ +65 °C	8 bit LCD	ICEBrite, dual panel interface AM1 with anti-glare film Extended operating temperature AM8 ET with conformal coating ICEBrite, dimming, 24 V option, low profile, dual panel interface. (No 24V option for AM* ETL versions). AM8 ETL CC is conformal coating version.
EL640.480	AA1	996-5088-00	10.4" (26.4 cm)	0.33 mm	21 cd/m <sup>2</sup> (120 Hz)	10.0 W (70 Hz)	-25 ~ +65 °C	4 bit TFT	Multi-color: 8 colors + black, dimming, improved EMI

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