

Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com

SFS4276F



Specifications and Applications Information

06/27/13

The ERG SFS4276F LED backlight unit is specifically designed for applications which require wide dimming and LCD brightness stability. The SFS4276F is designed for the Kyocera TVL-55728D070J-LW-I-AAN backlight.

Designed, manufactured and supported within the USA, the SFS4276F features:

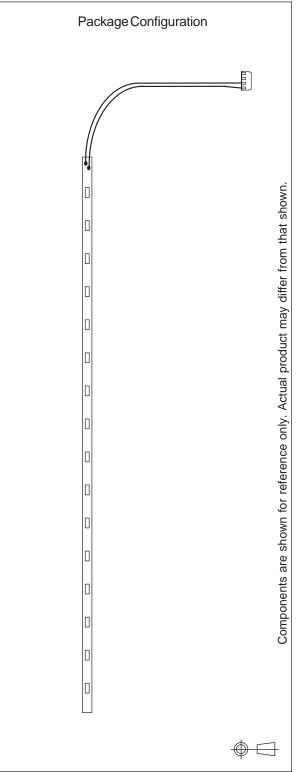
- ✓ Custom LED stick for Customer supplied rail
- ✓ High dimming ratio
- ✓ One year warranty

Connector Input Connector

Molex 51021-0400

J1-1 N/C J1-2 N/C J1-3 Cathode 1 J1-4 Anode 1

LED Backlight Unit





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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Forward Current (1)	I _F	200	mA
Component Surface Temperature	Ts	-40 to +100	°C
Storage Temperature	Tstg	-40 to +100	°C

Maximum Recommended Operating Conditions (2)

Rating	Symbol	Value	Units
Forward Current (3)	I _F	150	mA
Component Surface Temperature	Ts	-40 to +95	°C

Electrical Characteristics

Unless otherwise noted $I_F = 100$ mA dc and Ta = 25°C

Characteristic	Symbol	Min	Тур	Max	Units
Number of Strings	-	-	1	-	-
LED Forward Voltage	V _F	2.7	3.0	3.4	V
String voltage	V _S	43.2	48.0	54.4	V

Specifications subject to change without notice.

- (1) Current is specified per string.
- (2) Operation above maximum recommended operating conditions will require additional thermal management actions and will decrease LED lifetime.
- (3) Strings are to be driven with a current source.
- (4) Forward voltage has a tolerance of ±0.05V.



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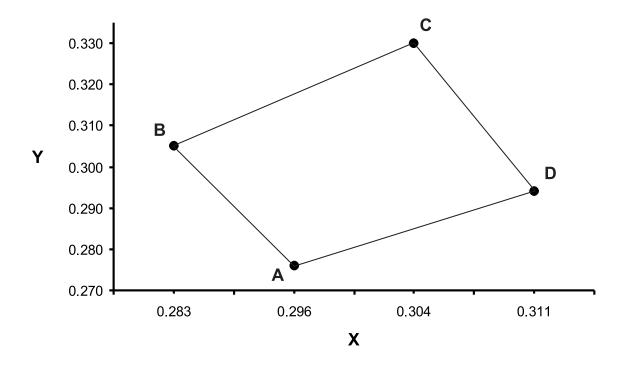
Backlight Chromaticity Coordinate Boundaries (1)

(Ta = 25°C)

	Α	В	С	D
Х	0.296	0.283	0.304	0.311
Υ	0.276	0.305	0.330	0.294

(1) Each column (A, B, C and D) represents an X,Y coordinate on the CIE 1931 chromaticity diagram.

CIE 1931 CHROMATICITY DIAGRAM





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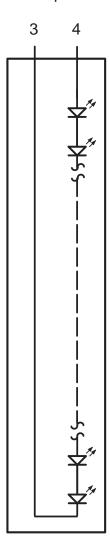


Figure 1
SFR Connectivity



Endicott Research Group, Inc. (ERG) reserves the right to make changes in circuit design and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets are current before placing orders. Information furnished by ERG is believed to be accurate and reliable. However, no responsibility is assumed by ERG for its use.