

128 x 64 DOT MATRIX, GAS-PLASMA DISPLAY WITH CONTROLLER

The dc-plasma, easy-to-read, fully populated, graphic display is arranged as 128 columns by 64 rows and features bright neon-orange pixels, wide viewing angle, and sharp contrast. The slim profile, compact outline, and large viewing area make efficient use of valuable system, front panel space. Inherently rugged, dc-plasma displays are a cost-effective solution when overcoming vibration, temperature, or EMI/RFI issues.

GD-64C128-03 dc-plasma display has a built in controller. The GD-064C128-03 display controller provides an easy way to interface through input only parallel connector P4. The controller will provide the proper video signals to drive the display. The user can easily program the display screen images through the parallel port. An auxiliary RS232 serial port is available at P5.

FEATURES

Overall size: 5.90" x 3.0" x 1.32" max	Compact design
Active Area: 3.19" x 1.90"	Video interface
Pixel Diameter: 0.012"	50,000 hour life
Pixel Pitch: 0.025" x 0.030"	Luminance of 50 fL
Voltages: +5Vdc	130° viewing angle

SPECIFICATIONS*Absolute Maximum Ratings*

PARAMETER	SYM	MIN	MAX	UNITS
Logic Supply Voltage	V _{CC}	-0.5	+7.0	Volts
Column High Voltage Supply	V _{SP}		+ 80	Volts
Row High Voltage Supply	V _{SN}		-145	Volts
Total High Voltage, V _{SP} to V _{SN}	V _{HN}		210	Volts
Logic Supply Input Signals	V _{IN}	0	V _{CC}	Volts
Logic Supply Current	I _{CC}		100	mA
Column High Voltage Current	I _{SP}		80	mA
Row High Voltage Current	I _{SN}		80	mA

Recommended Operating Conditions

PARAMETER	SYM	MIN	TYP	MAX	UNITS
Logic Supply Voltage	V _{CC}	+4.75	+5.0	+5.25	Volts
Column High Voltage Supply	V _{SP}		+75	+80	Volts
Row High Voltage Supply	V _{SN}		-110	-111	Volts
Total High Voltage, V _{SP} to V _{SN}	V _{HN}	179	185	191	Volts
Logic '1' Input Voltage	V _{IH}	3.68		V _{CC}	mA
Logic '0' Input Voltages	V _{IL}	0		0.95	mA
Input Leakage Current (μA)				1.0	μA

Environmental Characteristics

Operating Temperature	0 to 55° C
Storage Temperature	-40 to +85° C
Relative Humidity	10 to 90% non-condensing

P6- Power Connector

Pin Number	Function
1	V _{SN}
2	GND
3	GND
4	V _{CC}
5	V _{SP}

P4 - Data Connector

Pin Number	Function
1	IND0
3	IND1
5	IND2
7	IND3
9	IND4
11	IND5
13	IND6
15	IND7
17	WR ₋
19	BUSY
2,4,6,8,10, 12,14,16,18	GND
20	SELF TEST

P5 - Serial Connector

Pin Number	Function
1	SERIAL DATA IN
2	GND

Outline and Mounting Drawing:

