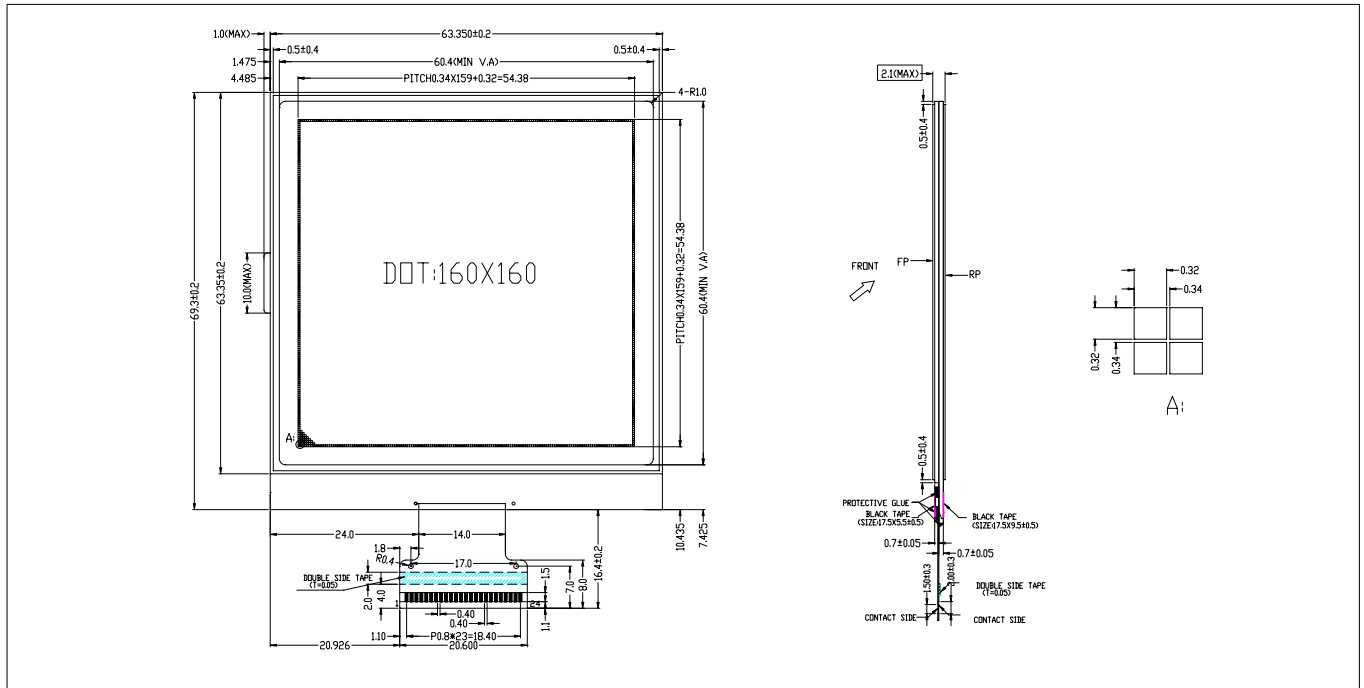


HGO1601601-P-F

1/160DUTY 1/10BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{LCD}	-	High voltage LCD power supply
2	V _{S+}	-	LCD SEG driving voltage. These are the voltage sources to provide SEG driving currents. These voltages are generated internally. Connect capacitors of CBX value between VBX+ and VBX-, and a capacitors of Cs value between Vs+ and Vs-.
3	V _{S-}		
4	V _{B0-}		
5	V _{B1-}		
6	V _{B1+}		
7	V _{B0+}		
8	V _{DD}		
9	V _{SS}	0V	GND
10	NC	-	No connection
11	BM0	H/L	Interface select: 8-bit 6800/8080
12	CS0	L	Chip select, active "L"
13	CD	H/L	H: Display data L: Control data
14	WR1	H/L	Read/write operation control
15	WR0	H/L	
16	RST	L	Reset signal ,active "L"
17 24	D0 D7	H/L	Data bus line

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	64.35X85.7X2.1	mm
Viewing Area (W x H)	60.4 X60.4	mm
Dot Pitch (W x H)	0.34X0.34	mm
Dot Size (W x H)	0.32X0.32	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	4.0	V
Supply Voltage (LCD)	V ₀	-0.3	19.8	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	°C
Storage Temp.	T _{STG}	-30	80	°C

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25°C)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	3.3	-	V
Input Low Voltage	V _{IL}	-	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	-	-	V
Output Low Voltage	V _{OL}	-	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	-	-	mA
LCD Driving Voltage	V ₀	-	16.5	-	V

NOTES: 1. Built-in UC1698 controller 2. COG、FSTN