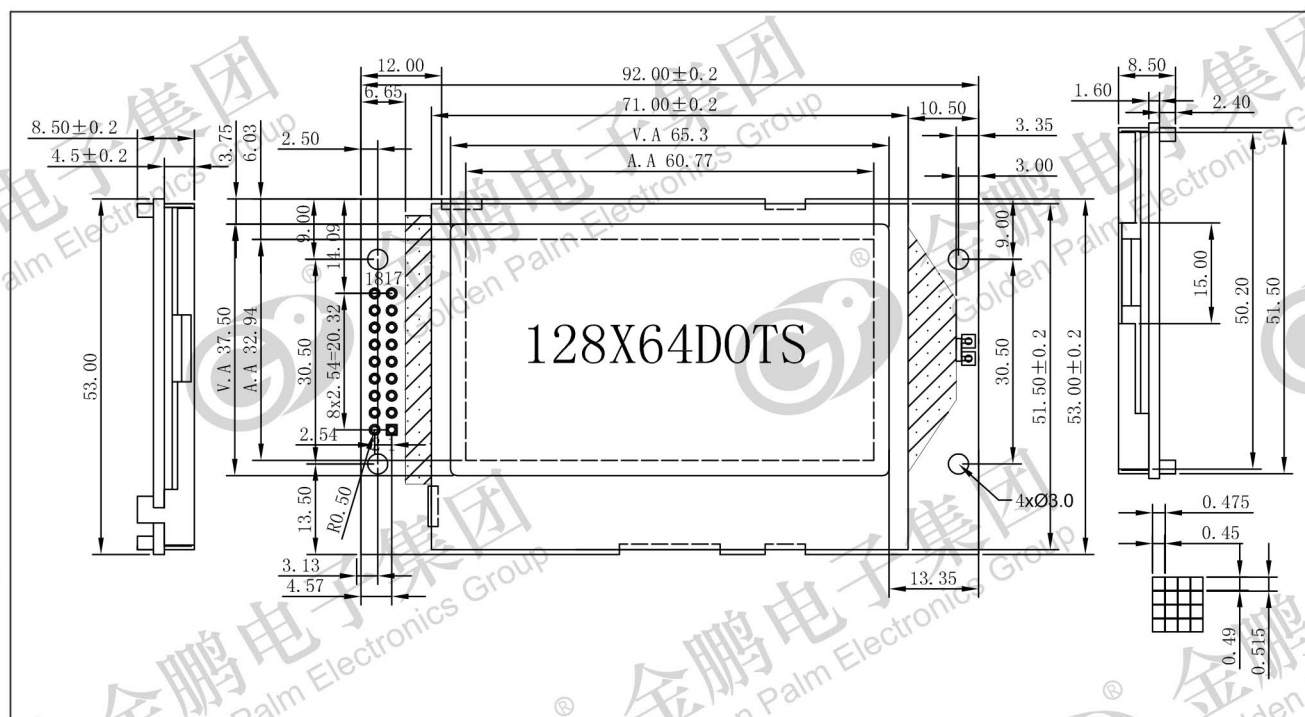




ABSOLUTE MAXIMUM RATINGS

Item	symbol	Min	Max.	Unit
Supply Voltage(Logic)	V _{DD}	-0.3	+3.3	V
Supply Voltage(LCD)	V _{LCD}	-0.3	+12.0	V
Input Voltage	V _{IN}	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	°C
Storage Temp.	T _{STR}	-30	80	°C

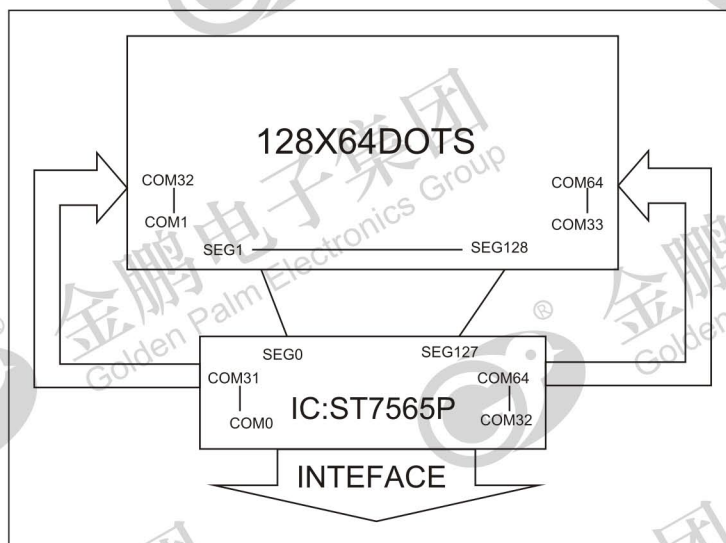
MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size(W X H X T)	92X53X8.5	mm
Viewing Area(W X H)	65.3X37.5	mm
Dot Pitch(W X H)	0.475X0.515	mm
Dot Size(W X H)	0.45X0.49	mm

ELECTRICAL CHARACTERISTICS (VDD=2.4Vto3.6V)

Item	symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	--	0.8V _{DD}	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	V _{SS}	--	0.2V _{DD}	V
Output High Voltage	V _{OH}	I _{OH} =-0.5mA	0.8V _{DD}	--	V _{DD}	V
Output Low Voltage	V _{OL}	I _{OL} =0.5mA	V _{SS}	--	0.2V _{DD}	V
Supply Current	I _{IL}	V _{IN} =V _{DD}	--	1.0	--	mA

BLOCK DIAGRAM



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	/Cs1	L	Chip Selection for Ic1
2	/CS	L	Chip Select signal(Assistant IC)
3	/RST	L	Reset Signal, Active Low
4	SO	H/L	Serial data ouput(Assistant IC)
5	AO	H/L	Select display data or instrction
6	SI	H/L	Serial Data input(Assistant IC)
7	SCK	H/L	Serial Timepiece input
8	SCLK	H/L	Serial Timepiece input(Assistant IC)
9	CDA	H/L	Data input
10	NC	--	NO Connection
11	VDD	--	Power Supply(+3.3V)
12	A	--	Power supply for LED
13	VSS	--	GND
14	K	--	Ground fo LED
15	K	--	Ground fo LED
16	NC	--	NO Connection
17	A	--	Power supply for LED
18	NC	--	NO Connection

LED BACKLIGHT SPECIFICATIONS(Ta=25°C)

Item	symbol	Typ.	Max.	Unit
Forward Voltage	V _f	3.0	3.3	V
Forward Current	I _f	25	--	mA
Emission Wave Length	p	568	--	nm