

ЖИДКОКРИСТАЛЛИЧЕСКИЕ ИНДИКАТОРЫ

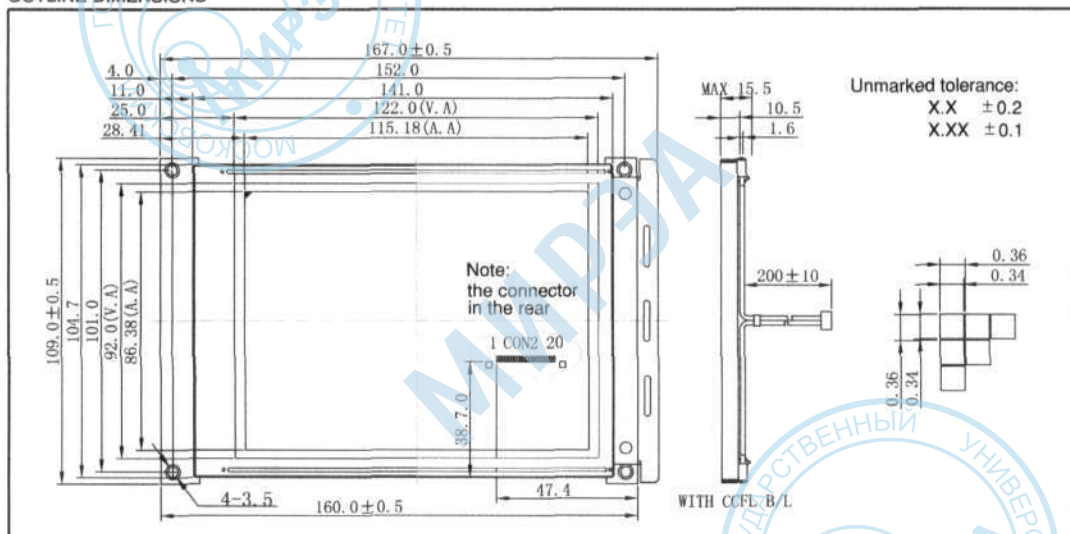
COG ИНДИКАТОРЫ

AV-DISPLAY

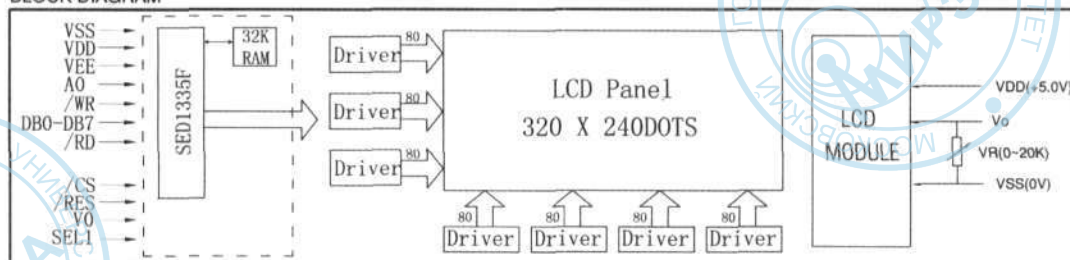
HY-320240A Series

320x240 DOTS
1/240 DUTY, 1/17 BIAS

OUTLINE DIMENSIONS



BLOCK DIAGRAM



MECHANICAL SPECIFICATIONS & FEATURE

Item	Normal Dimensions(mm)	Item	FEATURE
Module Size (W*H*T)	167.0X109.0X15.5	LCD Type	STN
View Area (W*H)	122.0X92.0	LCD Colour	STN:Yellow-Green, Gray FSTN:Gray
Dots xDots(W*H)	320x240	View Angle	6 O'clock, 12 O'clock
Dot Pitch (W*H)	0.36X0.36	Display Type	Negative Type
Dot Size (W*H)	0.34X0.34	Rear polarizer	Transmissive
---	---	Operating Temperature	0°C ~ 50°C, -20°C ~ 70°C
---	---	Backlight	CCFL:White

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25°C	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25°C	---	24.0	---	V
Supply Current	Idd	Ta=25°C, Vdd=5.0V	---	3.0	4.5	mA
Supply Current for Backlight(CCFL)	If	Ta=25°C, Vdd=5.0V	---	100	---	mA

INTERFACE PIN CONNECTIONS

Pin No	Symbol	Level	Description
1	VSS	---	Ground for Logic
2	VDD	---	Power supply for Logic(+5.0V)
3	VO	---	Power supply for LCD drive
4	AO	H/L	Register selection (H:Data register, L:Instruction register)
5	/WR	L	write signal
6	/RD	L	Read signal
7-14	DB7-DB0	H/L	Data Bus lines
15	/CS	L	Chip Selection
16	/RST	L	Reset signal
17	VEE	---	Negative voltage Output
18	SEL1	---	MPU interface format selection
19	FGND	---	Frame Ground
20	NC	---	No connection