

UNCONTROLLED DOCUMENT

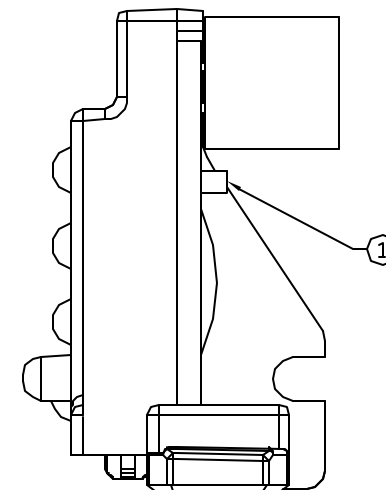
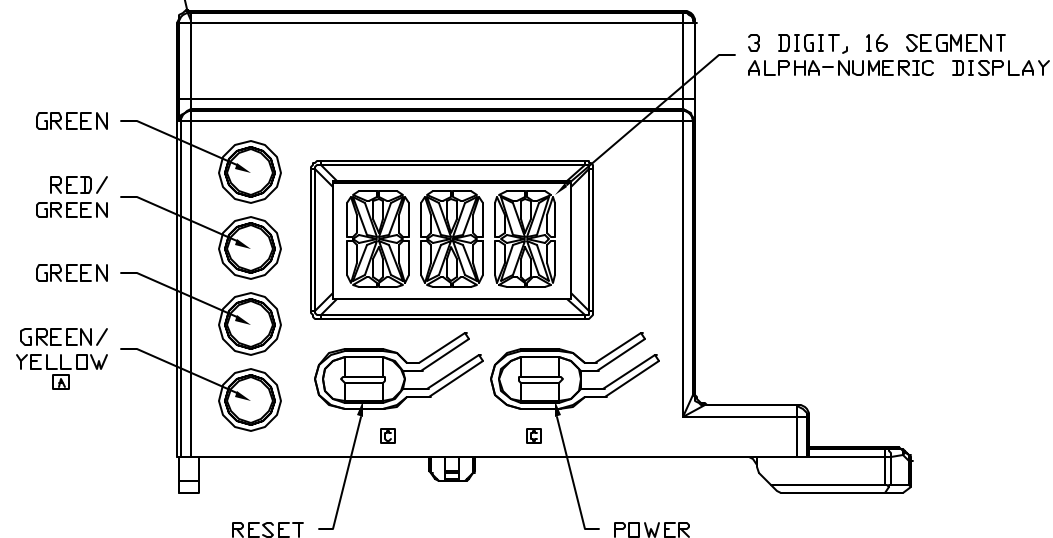
PART NUMBER
LCM-S301A30TF-ASMH

REV.

D

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10831.	1.17.02
B	E.C.N. #11012.	7.10.03
C	E.C.N. #11084.	1.16.04
D	E.C.N. #11213.	2.2.05

ABS PLASTIC HOUSING



NOTES:

1. LOCATOR PINS TO BE HEAT STAKED AFTER PCB INSERTION.
2. NUMBER 081001 REV B1 TO BE PRINTED ON PCB.
3. SERIAL NUMBERS, STARTING AT SN100000, ARE TO BE LABELED. LABELS ARE TO BE AFFIXED ONTO THE PCB.

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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3 DIGIT CUSTOM LCD ASSEMBLY, LED BACKLIGHT,
SWITCHES, CONNECTOR, LED ARRAY, PLASTIC HOUSING.

DRAWN BY:

SA/GT

CHECKED BY:

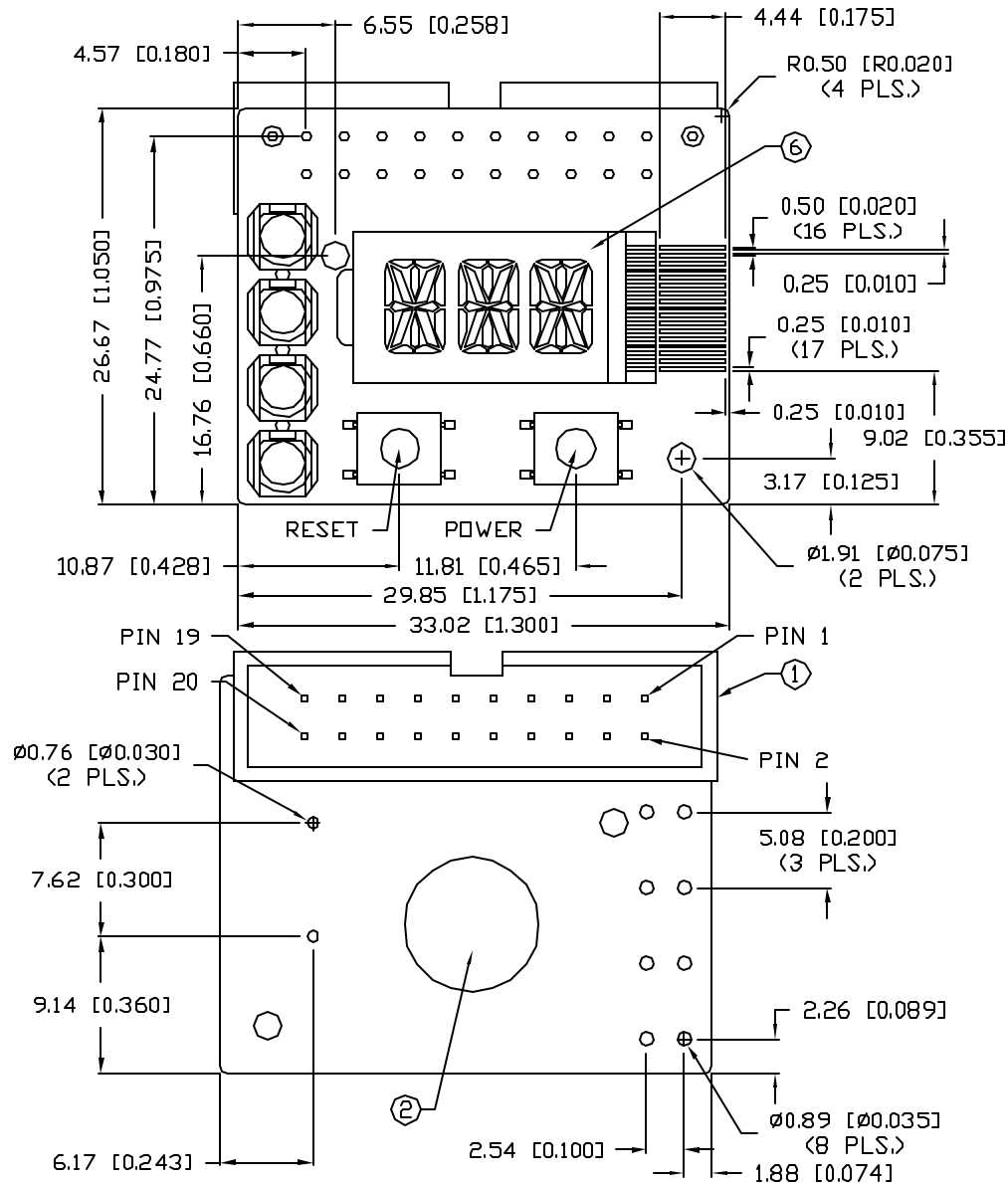
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DATE: 12.11.01

PAGE: 1 OF 3

SCALE: N/A

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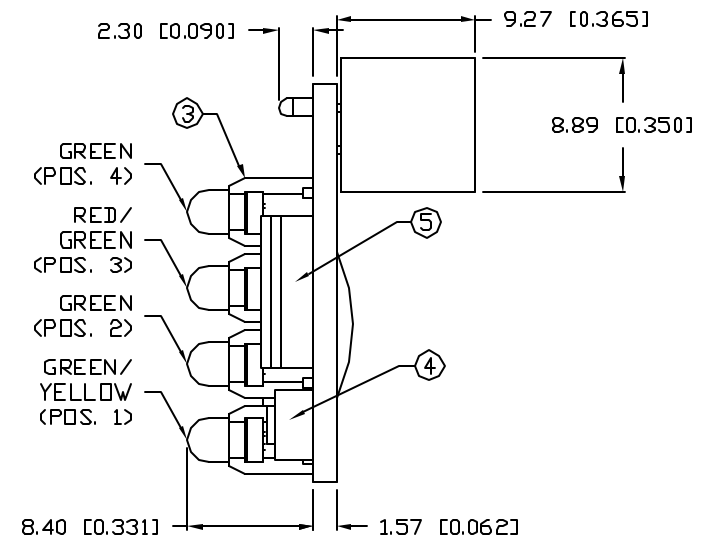
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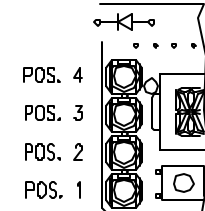
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SEE PAGE 1.



LED	FUNCTION	COLOR	Symbol
POS. 4	POWER	GREEN	GREEN
POS. 3	C/PORT	RED/GREEN	RED
POS. 2	HDD	GREEN	GREEN
POS. 1	NETWORK	GREEN/YELLOW	GREEN



NOTES:

1. MOLEX CONNECTOR: 87834-2011 OR CLEARCUBE APPROVED EQUIVALENT.
2. HOLTEK IC: HT1621.
3. LUMEX PART# SSA-LXH0430-242232.
4. APEM PART# MJPT1122B OR E-SWITCH PART# TL3303 OR EQUIVALENT.
5. LUMEX PART# SSB-DL2010SBC/A.
6. LUMEX PART# LCD-S301A20TF-S.

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SA/CT

3 DIGIT CUSTOM LCD ASSEMBLY, LED BACKLIGHT,
SWITCHES, CONNECTOR, LED ARRAY, PLASTIC HOUSING.

PIN CONFIGURATION

PIN NO.	SYMBOL	FUNCTION
1	POS. 4	GREEN ANODE 2.2V
2	VDD	POWER SUPPLY +5V
3	POS. 4	GREEN CATHODE
4	A	ANODE LED BACKLIGHT (+12V)
5	POS. 2	GREEN ANODE 2.2V
6	POS. 1	BICOLOR YELLOW CATHODE/GREEN ANODE 2.2V
7	POS. 2	GREEN CATHODE
8	POS. 1	BICOLOR YELLOW ANODE 2.1V/GREEN CATHODE
9	POS. 3	BICOLOR RED ANODE 2.0V/GREEN CATHODE
10	RST	RESET SWITCH
11	POS. 3	BICOLOR RED CATHODE/GREEN ANODE 2.2V
12	GND	SWTCH GROUND
13	VSS	GROUND
14	PWR	POWER SWITCH
15	$\overline{CS}$	CHIP SELECT INPUT (LOW)
16	$\overline{RD}$	READ CLOCK INPUT (LOW)
17	K	CATHODE LED BACKLIGHT
18	VDD	POWER SUPPLY +5V
19	DATA	SERIAL DATA I/O
20	WR	WRITE CLOCK INPUT (LOW)

BIT MAP

DATA ADDR	COM0	COM1	COM2	COM3
SEG8	2B	2L	2O	2E
SEG9	2C	2M	2N	2D
SEG10	3H	3J	3I	3G
SEG11	3A	3K	3P	3F
SEG12	3B	3L	3O	3E
SEG13	3C	3M	3N	3D
SEG14	2A	2K	2P	2F
SEG15	2H	2J	2I	2G
SEG16	1C	1M	1N	1D
SEG17	1B	1L	1O	1E
SEG18	1A	1K	1P	1F
SEG19	1H	1J	1I	1G

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V_{DD}	$T_a=25^{\circ}\text{C}$	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	V_{LCD}	$T_a=25^{\circ}\text{C}$	-0.3	$V_{DD}+0.3$	V
INPUT VOLTAGE	V_I	$T_a=25^{\circ}\text{C}$	-0.3	$V_{DD}+0.3$	V
OPERATING TEMPERATURE	T_{opr}	-	0	50	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{stg}	-	-20	70	$^{\circ}\text{C}$

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