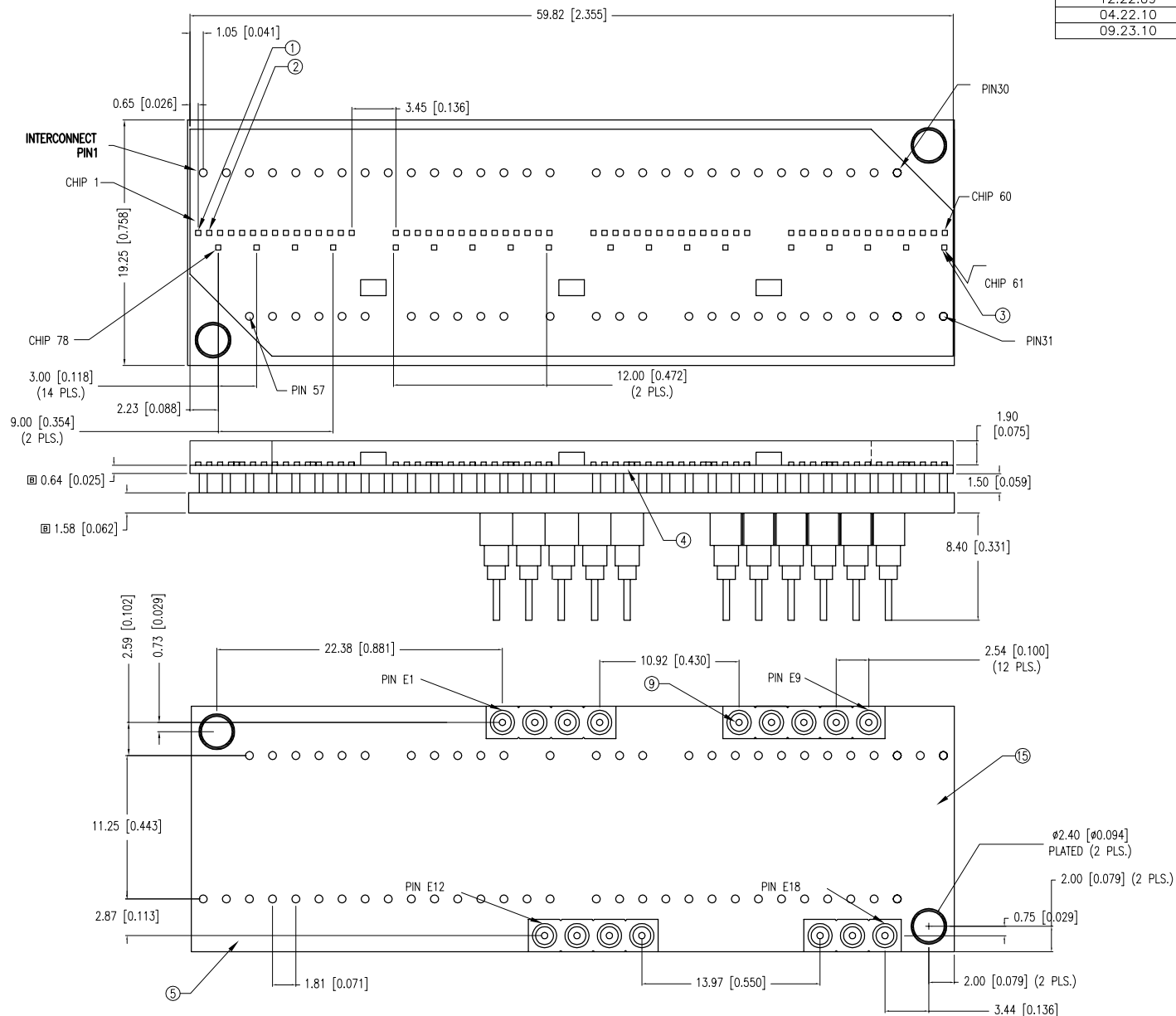


PART NUMBER	SSA-LX78-1	REV.	C
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
12.22.09	E.C.N. #11606.		A
04.22.10	E.C.N. #11634.		B
09.23.10	E.C.N. #11659.		C



NOTES:

- LUMEX SSD-LX010E1200CGPU 1200nm DICE (30 PCS.) CHIPS:1,3,5,7...59
- LUMEX SSD-LX010E1550CGPU 1550nm DICE (30 PCS.) CHIPS:2,4,6,8...60
- LUMEX SSD-LX014E870DGPU 870nm DICE(18 PCS) CHIPS:61-78
- LUMEX LXP-PCBCER78
- LUMEX LXP-301019 FR4 RESISTOR BOARD
- TOLERANCE FOR CHIPS $\pm 10\text{nm}$ & $\pm 5\%$ POWER OUTPUT.
- LED COATED BY NORLAND NOA 68, OR EQUIVALENT.
- AVX NC12MC0272JBA THERMISTOR, $2.7\text{k}\Omega$ @ ROOM TEMP, 0805 PACKAGE (3 PCS.)
- SAMTEC #BBS-116-G-A SAMTEC CONNECTOR, SYMBOL:
- FORMCUT INDUSTRIES 11449, GOLD PLATED INTERCONNECT PINS (48 PCS.), SYMBOL:
- VISHAY 541-062CDKR-ND 62Ω RESISTOR, 1% 0805 PACKAGE (30 PCS.)
- LUMEX LX-HEATER75 7.5Ω HEATER ON BOTTOM OF CERAMIC BOARD.
- AVX 08052C105JAT2A-ND $1\mu\text{F}$ CAPACITOR, 0805 PACKAGE (7 PCS.)
- VISHAY 541-150CDKR-ND 150Ω RESISTOR, 1% 0805 PACKAGE (9 PCS.)
- RESISTORS & CAPACITOR NOT SHOWN.
- 16.469826-1, MM/YY-LX TO BE MARKED ON PCB, WHERE MM/YY IS MONTH/YEAR OF MANUFACTURE.
- LUMEX SSA-LX78 600MM IC TUBE PACKAGING, TUBE CASE.

ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETER	SYMBOL	TEST COND	870nm	1200nm	1550nm	UNITS
FORWARD VOLTAGE TYP.	V_f	$I_f=20\text{mA}$	1.4	0.8	0.8	V
FORWARD VOLTAGE MAX.	V_f	$I_f=20\text{mA}$	1.5	1.3	1.3	V
MAX REVERSE CURRENT	I_r	$V_r=3\text{V}$	10	10	10	μA
PEAK WAVELENGTH	λ_p	$I_f=20\text{mA}$	870	1200	1550	nm
SPECTRA HALF-WIDTH	$\Delta\lambda$	$I_f=20\text{mA}$	50	50	50	nm
POWER INTENSITY	I_v	$I_f=20\text{mA}$	4.0	0.6	0.4	mW

*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

UNCONTROLLED DOCUMENT



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CUSTOM IR CERAMIC BOARD, 30:1200nm, 30:1550nm, 18:870nm.

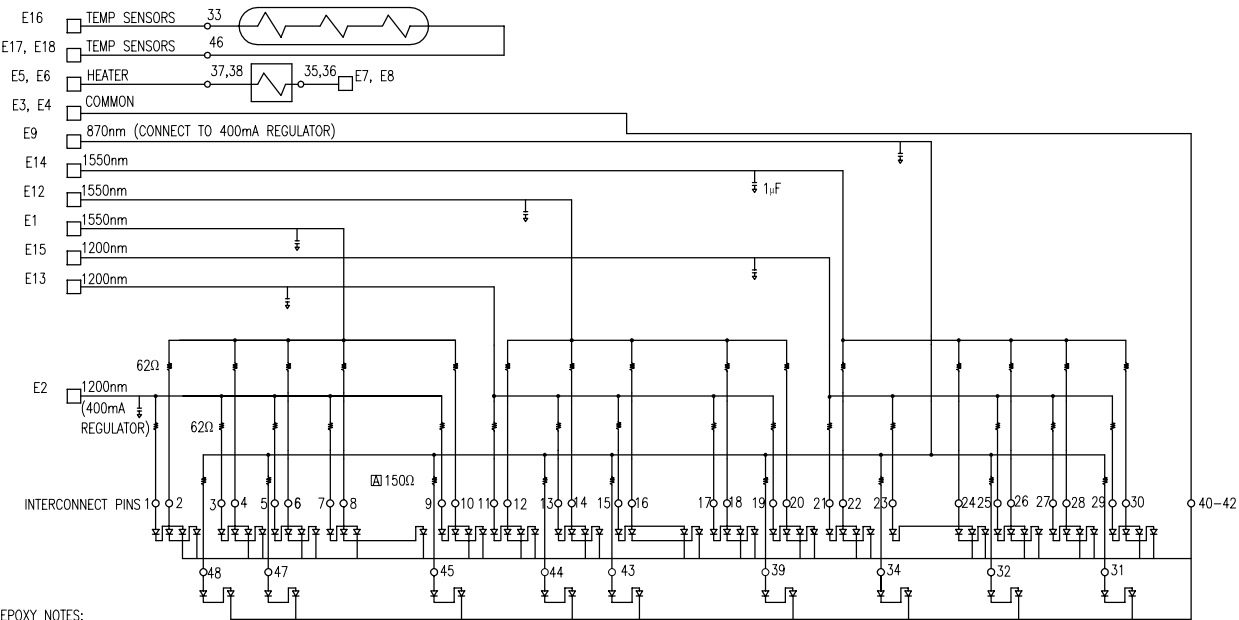
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DATE:	10.06.10	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	JD
SCALE:	N/A	APRVD BY:	YA
UNIT:	mm [INCH]		(R)

PART NUMBER	SSA-LX78-1	REV.	C
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- EPOXY NOTES:
- 1. EPOXY TO BE FREE OF BUBLES AND FOREIGN OBJECTS.
 - 2. THE EPOXY SURFACE WILL BE UNIFORM AND FREE OF SCRATCHES.
 - 3. AFTER CURING, THE EPOXY WILL NOT BE TACKY AND MUST BE STRONG ENOUGH TO NOT DAMAGE DURING NORMAL HANDLING.
 - 4. THE PCB WILL BE FREE OF EPOXY, ESPECIALLY IN THE VICINITY OF MOUNTING HOLES.

*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 -0.00 MAX= +0.00 -DECIMAL PRECISION



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DATE: 10.06.10	DRAWN BY: AB
PAGE: 1 OF 2	CHKD BY: JD
SCALE: N/A	APRVD BY: YA
UNIT: mm [INCH]	(P6)