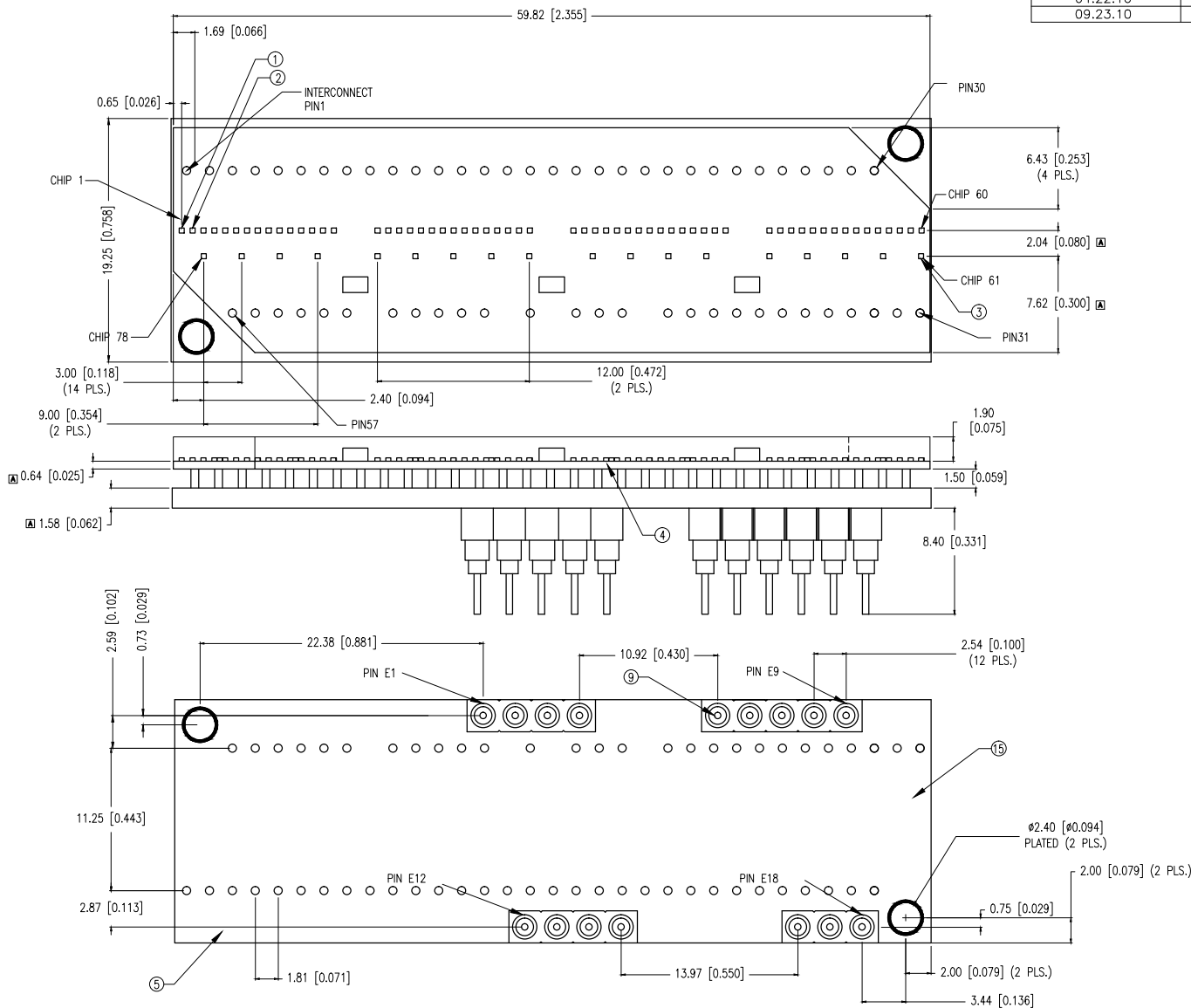


PART NUMBER	SSA-LX78-4	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
04.22.10	E.C.N. #11634.		A
09.23.10	E.C.N. #11659.		B



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-LX014E675DGPU 675 nm 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, 2.7K Ω @ 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 62 Ω RESISTOR, 1% 0805 PACKAGE (30 PCS.)
- LUMEX LX-HEATER75 7.5 Ω HEATER ON BOTTOM OF CERAMIC BOARD.
- AVX 0805C105JAT2A-ND 1 μF CAPACITOR, 0805 PACKAGE (7 PCS.)
- VISHAY 541-150CDKR-ND 150 Ω RESISTOR, 1% 0805 PACKAGE (9 PCS.)
- RESISTORS & CAPACITOR NOT SHOWN.
- 469826-4, 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	675nm	1200nm	1550nm	UNITS
FORWARD VOLTAGE TYP.	V_f	$I_f=20\text{mA}$	1.8	0.8	0.8	V
FORWARD VOLTAGE MAX.	V_f	$I_f=20\text{mA}$	2.2	1.3	1.3	V
MAX REVERSE CURRENT	I_r	$V_r=3\text{V}$	10	10	10	μA
PEAK WAVELENGTH	λ_p	$I_f=20\text{mA}$	675	1200	1550	nm
SPECTRA HALF-WIDTH	$\Delta\lambda$	$I_f=20\text{mA}$	20	50	50	nm
POWER INTENSITY	I_v	$I_f=20\text{mA}$	2.0	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



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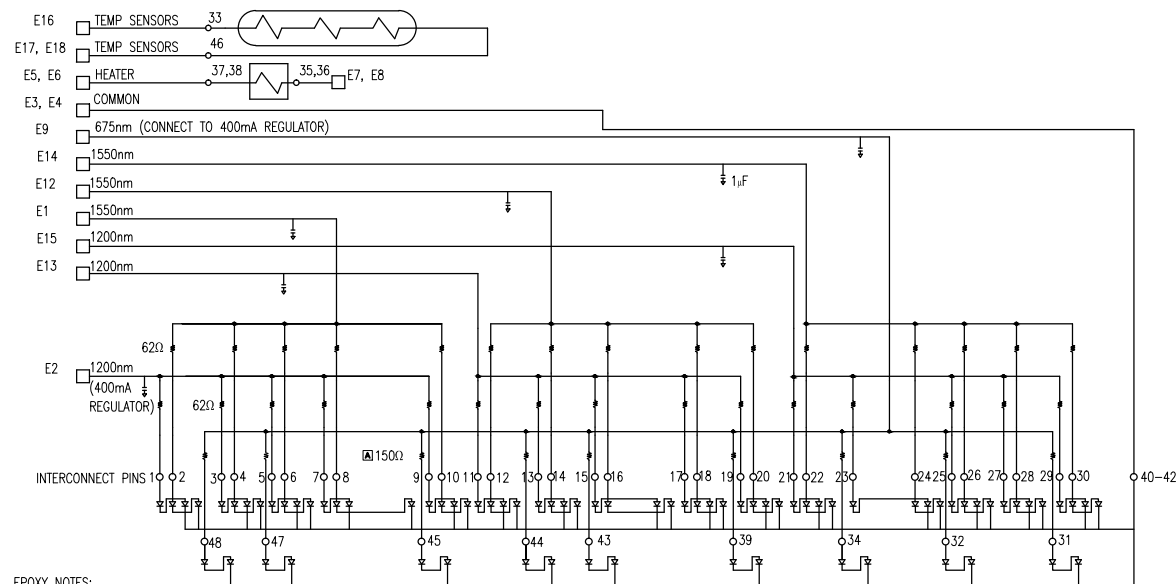
CUSTOM IR CERAMIC BOARD, 30:1200nm, 30:1550nm, 18:675nm.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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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]	Ⓢ

PART NUMBER	SSA-LX78-4	REV.	B
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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 MAX= +0.00 -DECIMAL PRECISION



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

UNCONTROLLED DOCUMENT