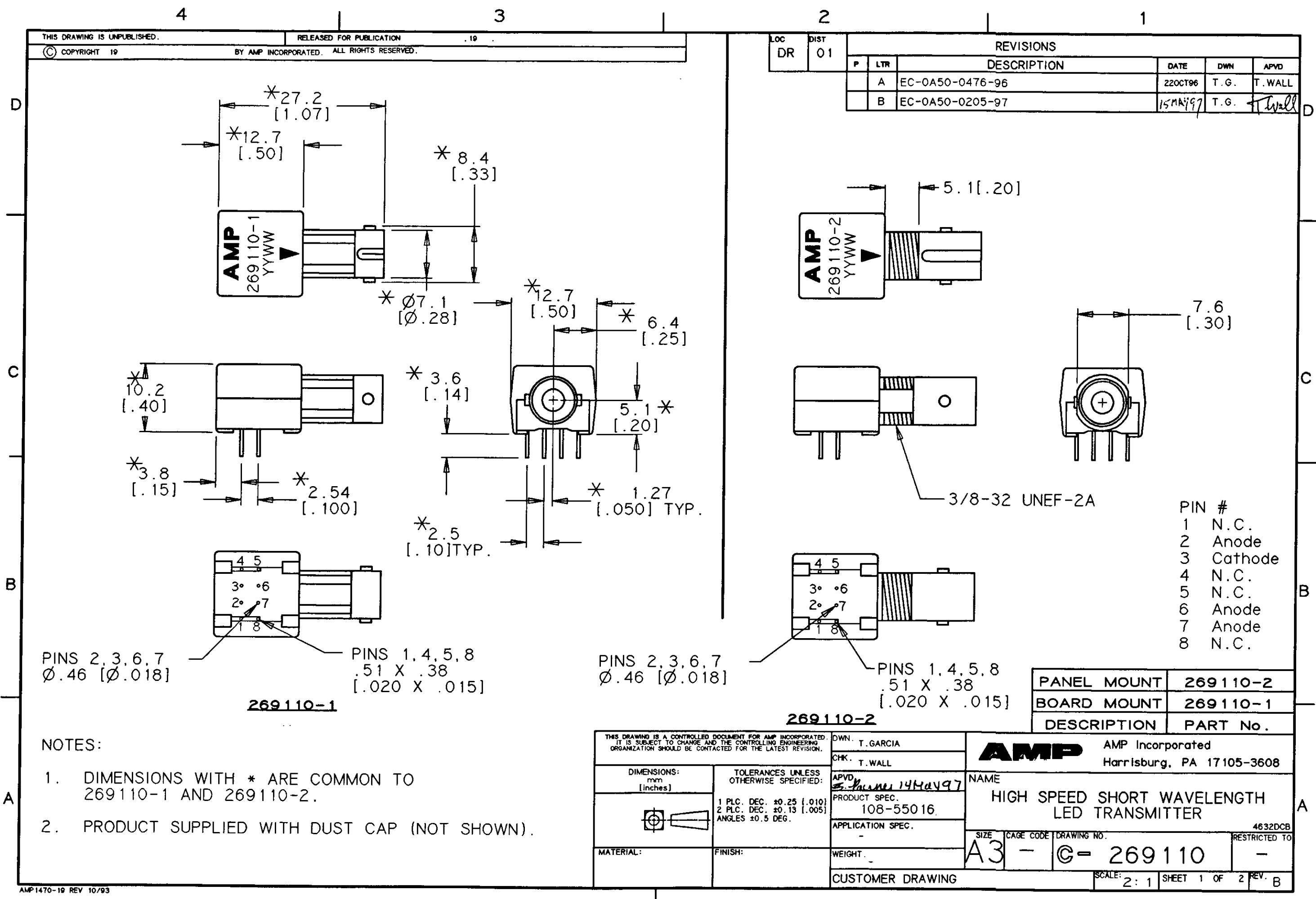




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LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
DR	01		A	EC-0A50-0476-96	22OCT96	T.G.	T.WALL
			B	EC-0A50-0205-97	15MAY97	T.G.	T.Wall

PIN #	
1	N.C.
2	Anode
3	Cathode
4	N.C.
5	N.C.
6	Anode
7	Anode
8	N.C.

PANEL MOUNT	269110-2
BOARD MOUNT	269110-1
DESCRIPTION	PART No.

- NOTES:
- DIMENSIONS WITH * ARE COMMON TO 269110-1 AND 269110-2.
 - PRODUCT SUPPLIED WITH DUST CAP (NOT SHOWN).

THIS DRAWING IS A CONTROLLED DOCUMENT FOR AMP INCORPORATED. IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION.		DWN. T. GARCIA CHK. T. WALL		AMP Incorporated Harrisburg, PA 17105-3608	
DIMENSIONS: mm [inches]	TOLERANCES UNLESS OTHERWISE SPECIFIED: 1 PLC. DEC. ±0.25 [.010] 2 PLC. DEC. ±0.13 [.005] ANGLES ±0.5 DEG.	APVD. <i>T. Wall</i> 14MAY97 PRODUCT SPEC. 108-55016	NAME HIGH SPEED SHORT WAVELENGTH LED TRANSMITTER		
MATERIAL:	FINISH:	APPLICATION SPEC.	SIZE A3	CAGE CODE -	DRAWING NO. ©= 269110
CUSTOMER DRAWING		WEIGHT.	RESTRICTED TO		
		SCALE: 2:1		SHEET 1 OF 2 REV. B	

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
DR	01		A	EC-0A50-0476-96	22OCT96	T.G.
			B	EC-0A50-0205-97	15MAY97	T.G.

ELECTRICAL/OPTICAL SPECIFICATIONS -40°C TO +85°C; TYP. VALUES AT 25°C
UNLESS OTHERWISE SPECIFIED, OUTPUT POWER MEASURED OUT OF 1 m OF CABLE

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	CONDITIONS
50/125 μ m FIBER CABLE NA = 0.20	P_{T50}	-18.8	-15.8	-13.8	dBm	$T_A=25^\circ\text{C}$ $I_F=60\text{ mA}$
		-19.8	--	-12.8		
		-17.3	-13.8	-11.4		$T_A=25^\circ\text{C}$ $I_F=100\text{ mA}$
		-18.9	--	-10.8		
62.5/125 μ m FIBER CABLE NA = 0.275	P_{T62}	-15.0	-12.0	-10.0	dBm	$T_A=25^\circ\text{C}$ $I_F=60\text{ mA}$
		-16.0	--	-9.0		
		-13.5	-10.0	-7.6		$T_A=25^\circ\text{C}$ $I_F=100\text{ mA}$
		-15.1	--	-7.0		
100/140 μ m FIBER CABLE NA = 0.30	P_{T100}	-9.5	-6.5	-4.5	dBm	$T_A=25^\circ\text{C}$ $I_F=60\text{ mA}$
		-10.5	--	-3.5		
		-8.0	-4.5	-2.1		$T_A=25^\circ\text{C}$ $I_F=100\text{ mA}$
		-9.6	--	-1.5		

DYNAMIC CHARACTERISTIC

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	CONDITIONS
RISE TIME, FALL TIME (10% TO 90%)	t_R, t_F	--	4.0	6.5	nsec	$I_F = 60\text{ mA}$ NO PRE-BIAS

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNITS
STORAGE TEMP.	T_s	-55	+85	$^\circ\text{C}$
OPERATING TEMP.	T_A	-40	+85	$^\circ\text{C}$
LEAD SOLDERING CYCLE	TEMP.	--	+260	$^\circ\text{C}$
	TIME.	--	10	sec
FORWARD INPUT CURRENT	PEAK	--	200	mA
	DC	--	100	mA
REVERSE INPUT VOLTAGE	V_{BR}	--	1.8	V

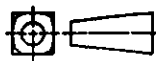
ELECTRICAL/OPTICS SPECIFICATIONS -40°C TO +85°C; TYP. VALUES ARE AT 25°C
UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	CONDITIONS
FORWARD VOLTAGE	V_F	1.48	1.70	2.09	V	$I_F = 60\text{ mA}$
		--	1.84	--		$I_F = 100\text{ mA}$
FORWARD VOLTAGE TEMP. COEFFICIENT	V_F/T	--	-0.20	--	mV/ $^\circ\text{C}$	$I_F = 60\text{ mA}$
		--	0.30	--		$I_F = 100\text{ mA}$
REVERSE INPUT VOLTAGE	V_{BR}	1.8	3.8	--	V	$I_R = 100\text{ }\mu\text{A}$
CENTER EMISSION WAVELENGTH	λ_P	820	840	865	nm	$I_F=60\text{ mA}$
		820	850	875		$I_F=100\text{mA}$
DIODE CAPACITANCE	C_T	--	55	--	pF	$V = 0,$ $f = 1\text{ MHz}$
OPTICAL POWER TEMP. COEFFICIENT	P_T/T	--	-.008	--	dB/ $^\circ\text{C}$	$I = 60\text{ mA}$
		--	-.020	--		$I = 100\text{ mA}$

PANEL MOUNT	269110-2
BOARD MOUNT	269110-1
DESCRIPTION	PART No.

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ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION.

DIMENSIONS:
mm
(inches)



MATERIAL:

TOLERANCES UNLESS OTHERWISE SPECIFIED:
1 PLC. DEC. ± 0.25 (.010)
2 PLC. DEC. ± 0.13 (.005)
ANGLES ± 0.5 DEG.

FINISH:

DWN. T.GARCIA
CHK. T.WALL
APVD. *T. Garcia* 14 MAY 97
PRODUCT SPEC. 108-55016
APPLICATION SPEC. -
WEIGHT. -
CUSTOMER DRAWING

AMP AMP Incorporated
Harrisburg, PA 17105-3608

NAME
HIGH SPEED SHORT WAVELENGTH
LED TRANSMITTER

SIZE A3 - CAGE CODE C-269110 - DRAWING NO. 46330CB
RESTRICTED TO

SCALE: NTS SHEET 2 OF 2 REV. B

AMP1470-19 REV 10/93

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■ **Customer Drawing: 269110**, Rev. B
Document Title: HIGH SPEED SHORT WAVELENGTH
LED TRANSMITTER

[169605.pdf](#) [169605.pdf](#) (85K)

The photographs and/or line drawings below are representative images of a product for viewing purposes only.

Absolute Maximum Ratings

Electrical Characteristics

Peak Optical Output

Searchable Features:

Brand:	AMP
Product Type:	Data Link
No. of Pins:	8
Transmitter/Receiver:	Transmitter
Application:	Ethernet, Token Ring
Mount Style:	Board
Data Rate (Mb/s):	125
Mode:	Multimode
Transceiver/Data Link Style:	ST
Power Supply:	Without

Other Properties:

Fiber Size (Micron):	50/62.5/100
Optical Wavelength (nm):	850
Distance:	4 km max.

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