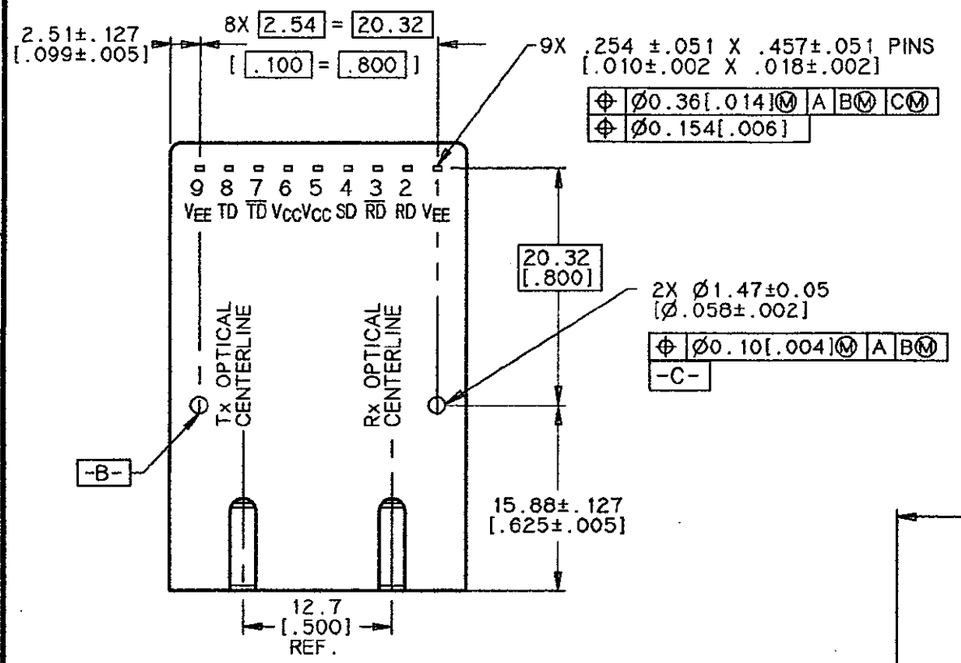
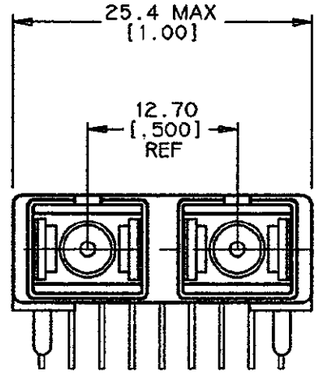
LOC	DIST
DR	01

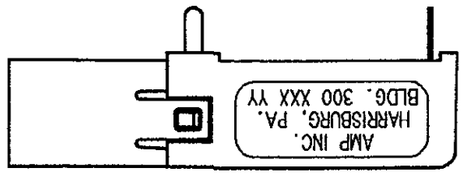
REVISIONS

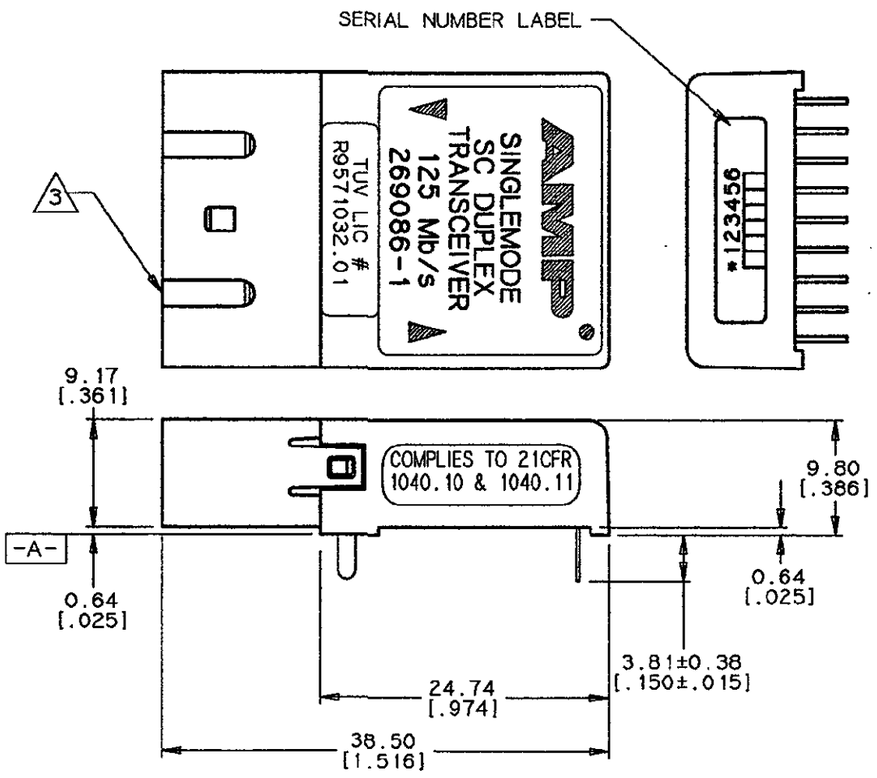
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	EC-0A50-0122-96	1MAY96	T.GARCIA	E.CORNEJO
	B	EC-0A50-0396-97	[illegible]	T.GARCIA	[illegible]

PINOUT VIEW FROM TOP









NOTES:

1. PIN PLATING: 150 MICROINCHES MIN. 93/7 TIN LEAD OVER 50 MICROINCHES MIN. Ni.
2. 0ns CLOCK OFFSET, V_{CC} = 5V, 25°C, $2^{15}-1$ PRBS. 2dB IS BUDGETED TO OPEN THE EYE FROM 0-2ns.
3. MATES WITH OPTICAL CONNECTORS MEETING JIS C 5973, 1990.
4. UNIT PROVIDED WITH PROCESS PLUG TO PROTECT OPTICAL PORTS DURING SOLDERING AND CLEANING PROCESSES.
5. MEETS CLASS 1 LASER SAFETY REQUIREMENTS OF IEC 825-2: 1993, AND US DEPARTMENT OF HEALTH SERVICES 21 CFR 1040.10 AND 1040.11 (1990) WHEN OPERATED WITHIN THE SPECIFIED TEMPERATURE, POWER SUPPLY, AND DUTY CYCLE RANGES.
6. USING FDDI HALT PATTERN, AS SPECIFIED IN THE FDDI SINGLEMODE PMD DOCUMENT ANSI X3.184: 1993.
7. TRANSMITTER OPTICAL WAVELENGTH COEFFICENT .4nm/°C.

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.

DIMENSIONS: mm [Inches]

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

MATERIAL:

FINISH:

DWN. T.GARCIA
CHK. S.O'NEILL
APVD [signature] 13-JUL-97
PRODUCT SPEC. 108-55010
APPLICATION SPEC. -
WEIGHT. -
CUSTOMER DRAWING

269086-1
PART No.

AMP Incorporated
Harrisburg, PA 17105-3608

NAME EXTENDED RANGE
TRx MODULE 9 PIN
125 Mb/s SINGLEMODE, SC DUPLES

SIZE	CAGE CODE	DRAWING NO.	RESTRICTED TO
A3	-	C-269086-1	-

4270DCB

SCALE: 2:1 SHEET 1 OF 3 REV. B

AMP1470-19 REV 10/93

LOC	DIST
DR	01

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	EC-0A50-0124-96	1MAY96	T.G.	E. CORNEJO
	B	EC-0A50-0396-97	[illegible]	T.G.	[illegible]

PERFORMANCE SPECIFICATIONS 125 Mb/s RECEIVER(T_A = 0-70°C, V_{CC} = 4.75-5.25V DC)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
DATA RATE (NRZ)	B	-	10	-	125	Mb/s
OPTICAL INPUT (AVG) SENSITIVITY (2)	P_{IN}	9/125um FIBER	-33	-	-3	dBm
		B=125Mb/s, BER=1.0X2.5^{-10}	-	-	-	dBm
OPTICAL WAVELENGTH	λ_{IN}	-	1261	-	1360	nm
DUTY CYCLE	-	-	40	50	60	%
OUTPUT RISETIME	t_{TLH}	20-80%, 50Ω TO V_{CC}-2V	.5	-	2.5	ns
OUTPUT FALLTIME	t_{THL}	80-20%, 50Ω TO V_{CC}-2V	.5	-	2.5	ns
OUTPUT VOLTAGE LEVELS	V_{OH}		V_{CC}-1.025	-	V_{CC}-.88	V
	V_{OL}		V_{CC}-1.81	-	V_{CC}-1.62	V
SIGNAL DETECT (OUTPUT)	V_A	$P_{IN} \geq P_A$, 50Ω TO V_{CC}-2V	V_{CC}-1.025	-	V_{CC}-.88	V
	V_D	$P_{IN} < P_D$, 50Ω TO V_{CC}-2V	V_{CC}-1.81	-	V_{CC}-1.62	V
PIN POWER LEVELS (AVG)						
DEASSERT	P_D		-42.0	-	-32.5	dBm
ASSERT	P_A		-41	-	-31	dBm
HYSTERESIS			1.5	2.0	-	dB
SIGNAL DETECT DELAY TIME						
DEASSERT		-	-	-	500	µs
ASSERT		-	-	-	50	µs
POWER SUPPLY VOLTAGE	V_{CC} - V_{EE}	-	4.75	5.0	5.25	V
SUPPLY CURRENT	I_{CC} OR I_{EE}	-	-	-	150	mA
OPERATING TEMPERATURE	T_A	-	0	-	70	°C

ABSOLUTE MAXIMUM RATINGS

STORAGE TEMPERATURE	-	-	-40	-	100	°C
LEAD SOLDERING LIMITS	-	-	-	-	240/10	°C/s
POWER SUPPLY VOLTAGE	V_{CC} - V_{EE}	-	-.2	-	7.00	V

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DIMENSIONS: mm [Inches]

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

MATERIAL: FINISH:

DWN. T.GARCIA
CHK. S.O'NEILL
APVD [signature] 13-DEC-97
PRODUCT SPEC. 108-55010
APPLICATION SPEC. -
WEIGHT. -
CUSTOMER DRAWING

AMP Incorporated
Harrisburg, PA 17105-3608

NAME EXTENDED RANGE TRx MODULE 9 PIN 125 Mb/s SINGLEMODE, SC DUPLEX
427JDCB

SIZE	CAGE CODE	DRAWING NO.	RESTRICTED TO
A3	-	C-269086-1	-

SCALE: NTS SHEET 2 OF 3 REV. B

269086-1
PART No.

LOC	DIST
DR	01

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	EC-0A50-0124-96	1MAY96	T.G.	E.CORNEJO
	B	EC-0A50-0396-97	[illegible]	T.G.	[illegible]

PERFORMANCE SPECIFICATIONS 125 Mb/s TRANSMITTER (T_A = 0-70°C, $V_{CC}-V_{EE}$ =4.75-5.25V DC)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYPICAL	MAX	UNITS
DATA RATE (NRZ)	B	-	0	-	125	Mb/s
OPTICAL OUTPUT (AVG)	P_{OH}	9/125um FIBER	-8	-	-3	dBm
EXTINCTION RATIO (6)	-	10 LOG (V_{MAX}/V_{MIN})	10.0	-	-	dB
OPTICAL WAVELENGTH (7)	λ_{OUT}	CENTER	1276	1310	1353	nm
SPECTRAL WIDTH	$\Delta\lambda$	RMS	-	-	7.7	nm RMS
PULSE WIDTH DISTORTION	-	(PEAK-PEAK)	-	-	1.0	ns
OUTPUT RISETIME	t_{TLH}	10-90%	.6	1.2	2.5	ns
OUTPUT FALLTIME	t_{THL}	10-90%	.6	1.2	2.5	ns
DATA INPUTS	V_{IL}	-	Vcc-1.81	-	Vcc-1.475	V
	V_{IH}	-	Vcc-1.165	-	Vcc-.88	V
	I_{IL}	-	-2	-	-	µA
	I_{IH}	-	-	-	400	µA
POWER SUPPLY VOLTAGE	$V_{CC} - V_{EE}$	-	4.75	5.0	5.25	V
SUPPLY CURRENT	I_{CC} OR I_{EE}	-	-	-	140	mA
OPERATING TEMPERATURE	T_A	-	0	-	70	°C

ABSOLUTE MAXIMUM RATINGS

STORAGE TEMPERATURE	-	-	-40	-	100	°C
LEAD SOLDERING LIMITS	-	-	-	-	240/10	°C/s
SUPPLY VOLTAGE	$V_{CC} - V_{EE}$	-	-.2	-	7.00	V

269086-1
PART No.

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DIMENSIONS: mm [inches]

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

MATERIAL:

FINISH:

DWN. T.GARCIA
CHK. S.O'NEILL
APVD [illegible] 13-Mar-97
PRODUCT SPEC. 108-55010
APPLICATION SPEC. -
WEIGHT. -
CUSTOMER DRAWING

AMP Incorporated
Harrisburg, PA 17105-3608

NAME EXTENDED RANGE TRx MODULE 9 PIN 125 Mb/s SINGLEMODE, SC DUPLEX

4272DCB

SIZE	CAGE CODE	DRAWING NO.	RESTRICTED TO
A3	-	C-269086-1	-

SCALE: NTS SHEET 3 OF 3 REV. B