ABSOLUTE MAXIMUM RATINGS

ADOOLO I E INIAANINIONI ITA	IIII
Power-Supply Voltage (VCC)	0.5V to +6.0V
Voltage at IN+, IN(VCC	c - 2.4V) to (V _{CC} + 0.5V)
Voltage at SQUELCH, CAZ1, CAZ2,	
TH, CLOS	
Voltage at LOS, LOS (MAX3272)	
Voltage at LOS, LOS (MAX3272A)	0.5V to $(V_{CC} + 0.5V)$
Voltage at LEVEL	0.5V to +2.0V
Voltage at OUTPOL	0.5V to +6.0V
Current into LOS, LOS	1mA to +9mA
Differential Input Voltage (IN+ - IN-)	2.5V _{P-P}
Continuous Current at IN+, IN	50mA

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Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

 $(V_{CC} = +3.0 \text{V to } +3.6 \text{V}, T_A = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}. \text{ Typical values are at } V_{CC} = +3.3 \text{V and } T_A = +25 ^{\circ}\text{C}, \text{ unless otherwise noted.})$ (Note 1)

PARAMETER	SYMBOL		CONDITIONS	MIN	TYP	MAX	UNITS
Supply Current	Icc	(Note 2)			33	44	mA
Input Data Rate					2.5		Gbps
Input Voltage Range	V _{IN}	Differential		15		1200	mV _{P-P}
Output Deterministic Jitter		(Notes 3, 4, 5)			5	27	psp-p
Random Jitter		(Notes 4, 6)			3		psRMS
Data Output Edge Speed (20% to 80%)		(Notes 3, 4)	15mVp-p < V _{IN} ≤ 30mVp-p		90	130	ps
Differential Input Resistance	Dui	IN+ to IN-	$30\text{mVp-p} \le \text{V}_{\text{IN}} \le 1200\text{mVp-p}$	95	90	115 105	Ω
Input-Referred Noise	RIN	111+ 10 111-		95	220	100	
<u>'</u>	\/ - -		2 500	550		1000	µV _{RMS}
CML Output Voltage	Vout	LEVEL open, F		550	750	1200	mV _{P-P}
Output Signal when Squelched	DONID	Outputs AC-co	· · · · · · · · · · · · · · · · · · ·		2.2		mV _{P-P}
Power-Supply Noise Rejection	PSNR	f ≤ 2MHz (Note	e /)		30		dB
Low Frequency Cutoff	foc	C _{AZ} = open			0.9		MHz
		$C_{AZ} = 0.1 \mu F$	N.	40.5	1.5		kHz
Output Resistance	Rout	Single ended t	o vcc	42.5	50	57.5	Ω
Single-Ended Output Return Loss		≤ 2.5GHz	.5GHz to 4.0GHz		10		dB
			aHZ		9		-ID
Differential Input Return Loss	.,	4.0GHz			10		dB
OUTPOL Input Limits	VIL			0.4		0.8	V
	VIH	(1)		2.4			<u> </u>
LOS Hysteresis		(Notes 3, 4, 8)		2	3.3		dB
LOS Assert/Deassert Time			(Notes 3, 9, 10)		1		μs
			uF (Notes 3, 9, 10)	2.3	50	100	
Low LOS Assert Level		$R_{TH} = 20k\Omega$ (N	· · · · · · · · · · · · · · · · · · ·	4.5	6.5		mV _{P-P}
Low LOS Deassert Level		$R_{TH} = 20k\Omega$ (Notes 3, 10)			9.5	12.7	mV _{P-P}
Medium LOS Assert Level		$R_{TH} = 1k\Omega$ (Notes 3, 10)		7.8	12.9		mV _{P-P}
Medium LOS Deassert Level		$R_{TH} = 1k\Omega$ (Notes 3, 10)			17.4	22.4	mV _{P-P}
High LOS Assert Level		$R_{TH} = 80\Omega$ (No	otes 3, 10)	24.3	48		mV _{P-P}

ELECTRICAL CHARACTERISTICS (continued)

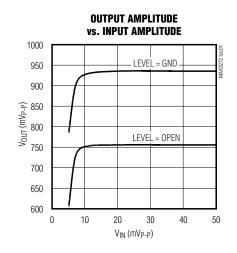
 $(V_{CC} = +3.0 \text{V to } +3.6 \text{V}, T_A = -40 ^{\circ} \text{C} \text{ to } +85 ^{\circ} \text{C}. \text{ Typical values are at } V_{CC} = +3.3 \text{V and } T_A = +25 ^{\circ} \text{C}, \text{ unless otherwise noted.})$

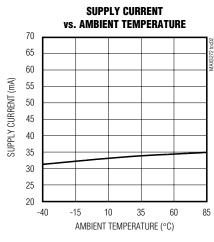
PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
High LOS Deassert Level		$R_{TH} = 80\Omega$ (Notes 3, 10)		73	124.7	mV _{P-P}
LOS Output High Voltage		Sinking 30µA	2.4			V
LOS Output Low Voltage		Sourcing 1.2mA			0.4	V
Squelch Input Current					400	μΑ

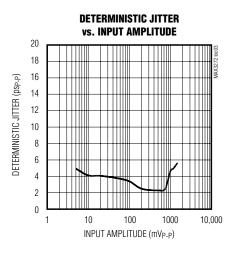
- Note 1: Dice are designed and guaranteed from -40°C to +85°C but are tested only at T_A = +25°C.
- Note 2: Supply current measurement excludes the current of the CML output stage (16mA typical). See Figure 1, *Power-Supply Current Measurement*.
- Note 3: Guaranteed by design and characterization.
- **Note 4:** Input edge speed is controlled using 4-pole, lowpass Bessel filters with bandwidth approximately 75% of the maximum data rate.
- Note 5: Deterministic jitter is measured with a K28.5 pattern (0011 1110 1011 0000 0101). Deterministic jitter is the peak-to-peak deviation from ideal time crossings, measured at the zero-level crossings of the differential output per ANSI X3.230, Annex A.
- **Note 6:** Random jitter is measured with the minimum input signal. For Fibre Channel and Gigabit Ethernet applications, the peak-to-peak random jitter is 14.1 times the RMS random jitter.
- **Note 7:** Power-supply noise rejection (PSNR) is calculated by the equation PSNR = $20\log (\Delta V_{CC}/(\Delta V_{OUT}))$, where ΔV_{OUT} is the change in differential output voltage due to the power-supply noise, ΔV_{CC} . See Power-Supply Noise Rejection vs. Frequency in the *Typical Operating Characteristics*.
- **Note 8:** Hysteresis is defined as: $20 \times log(V_{LOS-DEASSERT}/V_{LOS-ASSERT})$.
- **Note 9:** Response time to a 10dB change in input power. For the specification guaranteed, the power is assumed to switch back and forth between two levels (separated by 10dB and equidistant from assert and deassert levels) outside of the two hysteresis thresholds.
- Note 10: All power-detect AC parameters are guaranteed with a 2²³ 1 PRBS, 2.5Gbps input, with the longest possible run of 80CID.

Typical Operating Characteristics

(V_{CC} = +3.3V, T_A = +25 $^{\circ}C$, unless otherwise noted.)

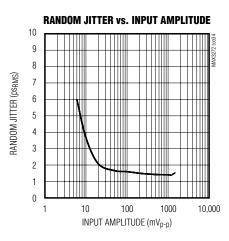


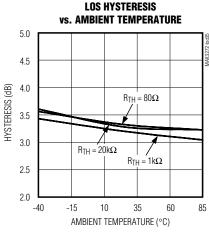


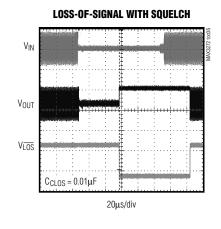


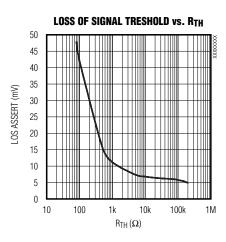
_Typical Operating Characteristics (continued)

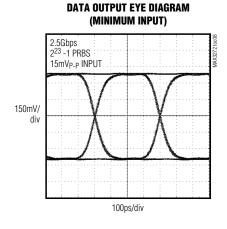
(V_{CC} = +3.3V, T_A = +25 $^{\circ}C$, unless otherwise noted.)

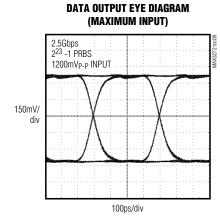


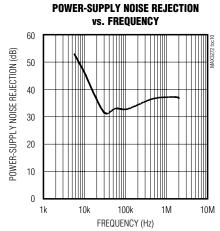


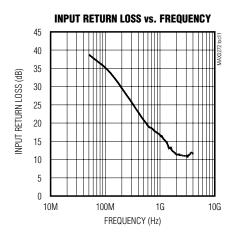


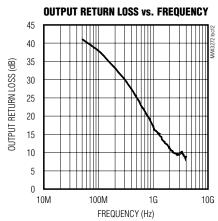






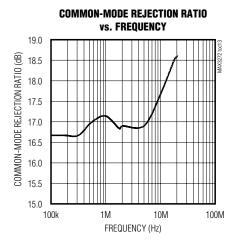


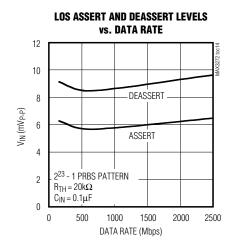




Typical Operating Characteristics (continued)

($V_{CC} = +3.3V$, $T_A = +25$ °C, unless otherwise noted.)





Pin Description

PIN	NAME	FUNCTION
1, 4, 17	GND	Supply Ground
2	IN+	Noninverted Input Signal
3	IN-	Inverted Input Signal
5	TH	Loss-of-Signal Threshold Pin. Resistor to ground sets the LOS threshold.
6, 12, 15, 20	Vcc	Power Supply
7	CLOS	LOS Time-Constant Capacitor Connection. For SONET applications, C _{CLOS} = 0.01µF is recommended.
8	SQUELCH	Squelch Input. The squelch function is disabled when SQUELCH is not connected or set to TTL low level. When SQUELCH is set to TTL high level and LOS is asserted, the data outputs (OUT+, OUT-) are forced to static levels.
9 LOS		Noninverted Loss-of-Signal Output. LOS is asserted TTL high when the signal drops below the assert threshold set by the TH input. The MAX3272 does not have ESD protection on this pin. The MAX3272A has ESD protection on this pin.
10	LOS	Inverted Loss-of-Signal Output. LOS is asserted TTL low when the signal drops below the assert threshold set by the TH input. The MAX3272 does not have ESD protection on this pin. The MAX3272A has ESD protection on this pin.
11	LEVEL	Output Current Level. When this pin is not connected, the CML output current is approximately 16mA. When this pin is connected to ground, the output current increases to about 20mA.
13	OUT-	Inverted Data Output
14	OUT+	Noninverted Data Output
16	OUTPOL	Output Polarity Control Input. Connect to GND for an inversion of polarity through the limiting amplifier and connect to VCC for normal operation.
18	CAZ2	Offset-Correction-Loop Capacitor Connection. A capacitor connected between this pin and CAZ1 extends the time constant of the offset correction loop. Typical value of CAZ is 0.1µF.
19	CAZ1	Offset-Correction-Loop Capacitor Connection. A capacitor connected between this pin and CAZ2 extends the time constant of the offset correction loop. Typical value of CAZ is 0.1µF.
EP	EXPOSED PAD	Connect the exposed paddle to board ground for optimal electrical and thermal performance.

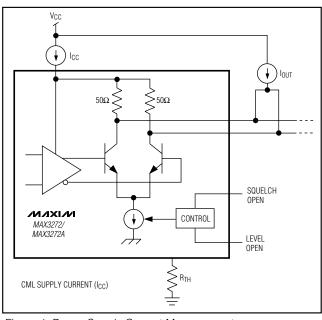


Figure 1. Power-Supply Current Measurement

Detailed Description

Figure 2 is a functional diagram of the MAX3272/MAX3272A, comprising a CML input buffer, power detector and loss-of- signal indicators, gain stage, offset-correction loop, and CML output buffer.

CML Input Buffer

The input buffer (Figure 3) provides 100Ω input impedance between IN+ and IN-. DC-coupling the inputs is not recommended; this prevents the DC offset-correction circuitry from functioning properly.

Power Detect and Loss-of-Signal Indicator

The MAX3272/MAX3272A are equipped with loss-of-signal (LOS) circuitry that indicates when the input signal is below a programmable threshold, set by resistor R_{TH} at the TH pin (see the *Typical Operating Characteristics* for appropriate resistor selection). An averaging peakpower detector compares the input signal amplitude with this threshold and feeds the signal-detect information to the LOS outputs, which are internally terminated to $8k\Omega$ (Figure 4).

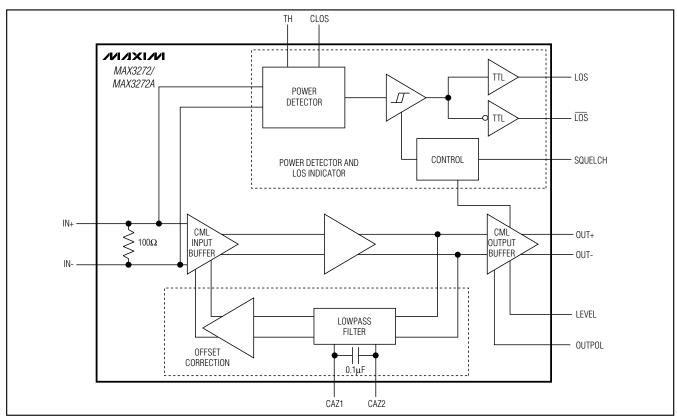


Figure 2. Functional Diagram

Interface Schematics

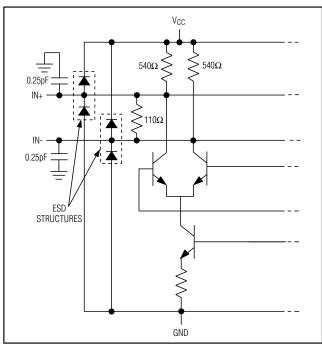


Figure 3. Input Circuit

Two control voltages VASSERT, and VDEASSERT, define the LOS assert and deassert levels. To prevent LOS chatter in the region of the programmed threshold, approximately 3.3dB of hysteresis is built into the LOS assert/deassert function. Once asserted, LOS is not deasserted until the input amplitude rises to the required level (VDEASSERT).

To facilitate interfacing with +5V modules, the LOS and LOS pins on the MAX3272 do not have internal ESD protection. If ESD protection is desired, a low-capacitance Schottky diode or diode array structure, such as the MAX3202E, is recommended (see the *Typical Operating Circuits*).

The LOS and $\overline{\text{LOS}}$ pins on the MAX3272A include ESD protection and, as a result, cannot be interfaced with +5V modules.

Gain Stage

The high-bandwidth gain stage provides approximately 42dB of gain.

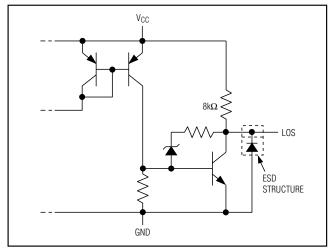


Figure 4a. LOS Output Circuit for MAX3272

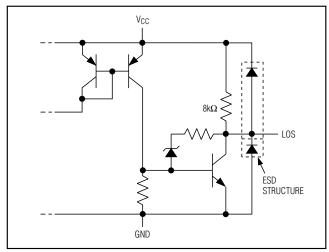


Figure 4b. LOS Output Circuit for MAX3272A

Offset-Correction Loop

Due to the high gain of the amplifier, the MAX3272/ MAX3272A are susceptible to DC offsets in the signal path. In communications systems using NRZ data with a 50% duty cycle, pulse-width distortion present in the signal or generated by the transimpedance amplifier appears as input offset and is removed by the offset-cancellation loop. An external capacitor is required between CAZ1 and CAZ2 to decouple the offset-cancellation loop and determine the lower 3dB frequency of the signal path.

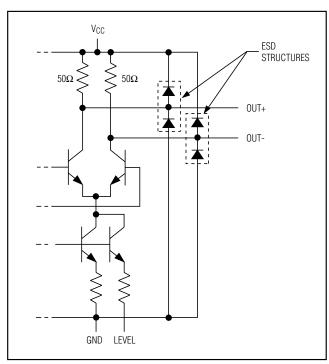


Figure 5. CML Output Circuit

CML Output Buffer

The MAX3272/MAX3272A CML output circuit (Figure 5) provides high tolerance to impedance mismatches and inductive connectors. The output current can be set to two levels using the LEVEL pin. When LEVEL is unconnected, the output current is approximately 16mA. Connecting LEVEL to ground sets the output current to approximately 20mA. The squelch function is enabled when the SQUELCH pin is set to a TTL high. This function holds OUT+ and OUT- to a static level whenever the input signal amplitude drops below the loss-of-signal threshold. This circuit is also equipped with a polarity selector, programmed by the OUTPOL pin. When this pin is connected to VCC, no inversion will occur. When connected to ground, the output signal will be inverted.

Design Procedure

Program the LOS Assert Threshold

External resistor R_{TH} programs the loss-of-signal threshold. See the LOS Threshold vs. R_{TH} graph in the the *Typical Operating Characteristics* section to select the appropriate resistor.

Select the Coupling Capacitors

When AC-coupling, input and output coupling capacitors (C_{IN} and C_{OUT}) should be selected to minimize the receiver's deterministic jitter. Jitter is decreased as the input low-frequency cutoff (f_{IN}) is decreased:

$$f_{IN} = 1 / [2\pi(50)(C_{IN})]$$

For ATM/SONET or other applications using scrambled NRZ data, select (C_{IN} , C_{OUT}) $\geq 0.1 \mu F$, which provides $f_{IN} < 32 \text{kHz}$. For Fibre Channel, Gigabit Ethernet, or other applications using 8B/10B data coding, select (C_{IN} , C_{OUT}) $\geq 0.01 \mu F$, which provides $f_{IN} < 320 \text{kHz}$. Refer to application note HFAN-1.1: Choosing AC-Coupling Capacitors.

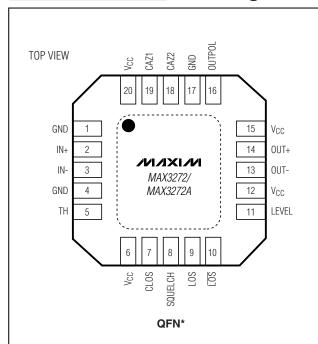
Select the Offset-Correction Capacitor

The capacitor between CAZ1 and CAZ2 determines the time constant of the signal path DC offset-cancellation loop. To maintain stability, it is important to keep a one-decade separation between flN and the low-frequency cutoff (foc) associated with the DC offset-cancellation circuit. For ATM/SONET or other applications using scrambled NRZ data, flN < 32kHz, so focmax < 3.2kHz. Therefore, CAZ = 0.1µF (foc = 2kHz). For Fibre Channel or Gigabit Ethernet applications, leave pins CAZ1 and CAZ2 open.

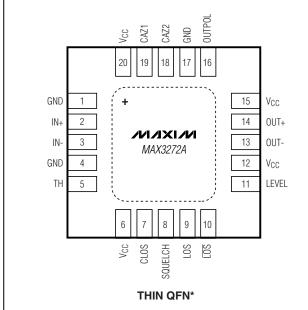
Program the LOS Time Constant

External capacitor CCLOS programs the LOS assert and deassert times. When inputting data with many consecutive identical digits (CIDs), a longer time constant may be advantageous, so LOS does not flag incorrectly. In this case, connect the CLOS pin to a $0.01\mu F$ capacitor to set the assert time in the range of $2\mu s$ to $100\mu s$. For scrambled data where the mark density is kept at 50%, a shorter time constant may be desirable. Leave the CLOS pin open for a shorter time constant of about $1\mu s$.

Pin Configuration



NOTE: EXPOSED PAD MUST BE CONNECTED TO SUPPLY GROUND.



NOTE: EXPOSED PAD MUST BE CONNECTED TO SUPPLY GROUND.

Pad Coordinates

PAD	NAME	COORDINATES (µm)				
1	GND	47, 836				
2	IN+	47, 603				
3	IN-	47, 425				
4	GND	47, 237				
5	TH	47, 47				
6	Vcc	255, -154				
7	CLOS	436, -154				
8	SQUELCH	645, -154				
9	LOS	850, -154				
10	LOS	1063, -154				
11	LEVEL	1331, 37				
12	Vcc	1331, 212				
13	OUT-	1331, 421				
14	OUT+	1331, 573				
15	V _{CC}	1331, 780				
16	OUTPOL	1119, 1042				
17	GND	957, 1042				
18	CAZ2	773, 1042				
19	CAZ1	583, 1042				
20	N.C.	422, 1042				
21	V _C C	268, 1042				

Coordinates are for the center of the pad.

Coordinate 0, 0 is the lower left corner of the passivation opening for pad 5.

Applications Information

Optical Hysteresis

In an optical receiver, the electrical power change at the limiting amplifier is 2 times the optical power change.

As an example, if a receiver's optical input power (x) increases by a factor of two, and the preamplifier is linear, then the voltage input to the limiting amplifier also increases by a factor of two.

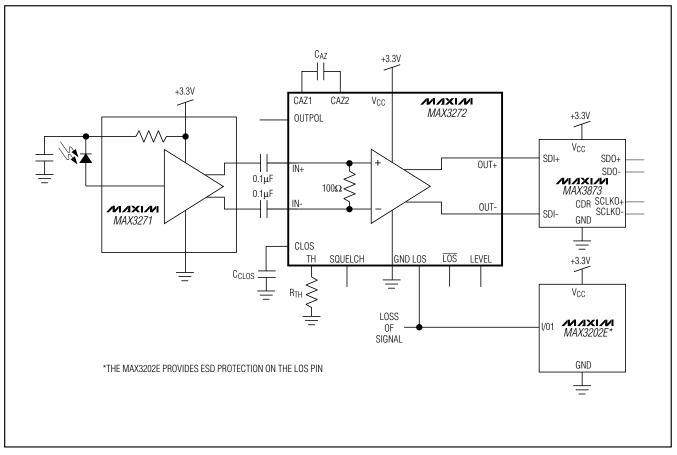
The optical power change is $10\log(2x/x) = 10\log(2) = +3dB$.

At the limiting amplifier, the electrical power change is:

$$10\log \frac{(2V_{IN})^2/R_{IN}}{V_{IN}^2/R_{IN}} = 10\log(2^2) = 20\log(2) = +6dB$$

The MAX3272 typical voltage hysteresis is 3.3dB. This provides an optical hysteresis of 1.65dB.

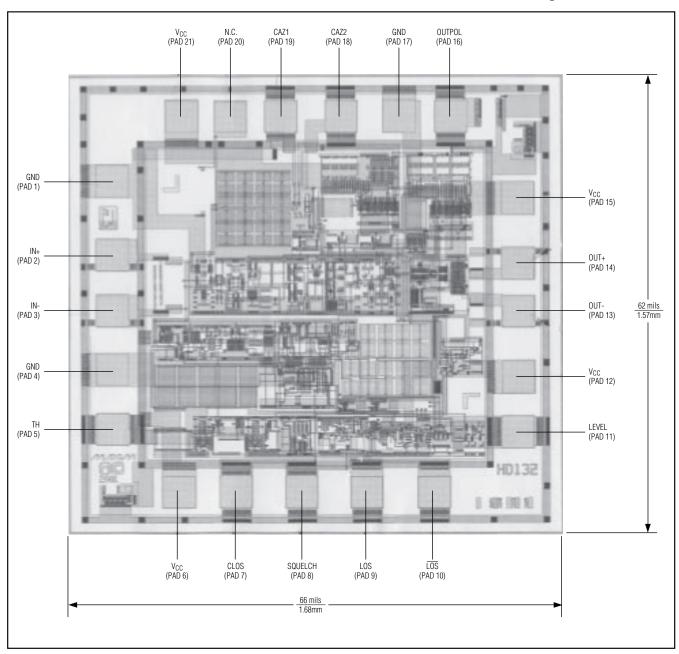
Typical Operating Circuit (continued)



Wire Bonding Die

For high-current density and reliable operation, the MAX3272 uses gold metallization. Make connections to the dice with gold wire only, and use ball-bonding techniques (wedge bonding is not recommended). Die pad dimensions are 94.4 microns by 94.4 microns. Die thickness is 15 mils (0.375mm).

Chip Information



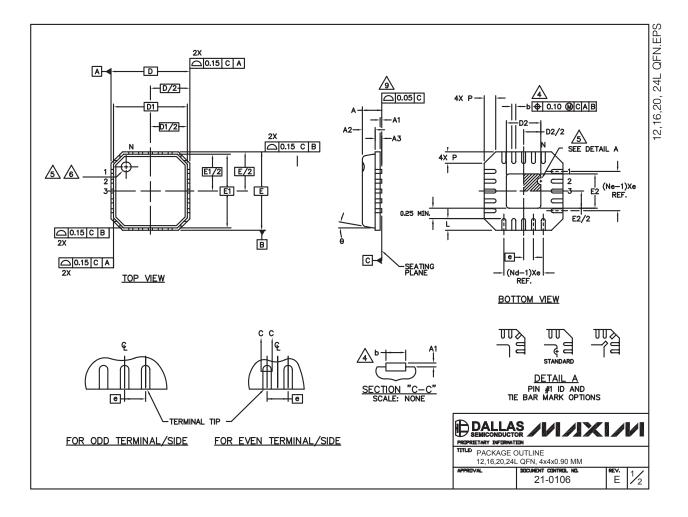
TRANSISTOR COUNT: 726 PROCESS: SiGe Bipolar

SUBSTRATE: Insulator, Connect to GND

DIE SIZE: 1.68mm x 1.57mm DIE THICKNESS: 15 mils

Package Information

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to www.maxim-ic.com/packages.)



Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to www.maxim-ic.com/packages.)

NOTES:

- 1. DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM (.012 INCHES MAXIMUM).
- 2. DIMENSIONING & TOLERANCES CONFORM MUST TO ASME Y14.5M. 1994.
- 3. N IS THE NUMBER OF TERMINALS.
 Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &
 No IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
- DIMENSION 6 APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.25mm FROM TERMINAL TIP.
- THE PIN #1 IDENTIFIER MUST BE EXISTED ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR INK/LASER MARKED. DETAILS OF PIN #1 IDENTIFIER IS OPTIONAL, BUT MUST BE LOCATED WITHIN ZONE INDICATED.
- 6 EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
- 7. ALL DIMENSIONS ARE IN MILLIMETERS.
- 8. PACKAGE WARPAGE MAX 0.05mm.
- APPLIED FOR EXPOSED PAD AND TERMINALS.

 EXCLUDE EMBEDDING PART OF EXPOSED PAD FROM MEASURING.
- 10. MEETS JEDEC MO220; EXCEPT DIMENSION "b".
- 11. THIS PACKAGE OUTLINE APPLIES TO PUNCHED QFN (STEPPED SIDES).

S		COMMON									
A M M O	DI.	DIMENSIONS									
L°L.	MIN.	NOM.	MAX.	T _E							
Α	0.80	0.90	1.00								
A1	0.00	0.01	0.05								
A2	0.00	0.65	0.80								
A3		0.20 REF.									
A2 A3 D D1		4.00 BSC									
D1		3.75 BSC									
LE		4.00 BSC									
E1	3.75 BSC										
θ P	0,	_	12°								
P	0.24	0.42	0.60								

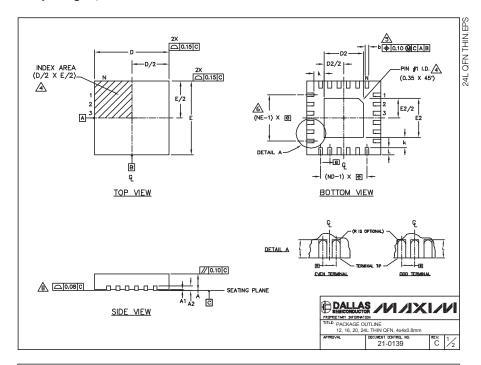
8 - M M O	PITCH MIN.	VARIAT	TON A	No _{TE}	SYMMO.	PITCH MIN.	VARIAT	TON B	No _{TE}	OWE	PITCH	VARIAT	TON C	No _{TE}	S N N O	PITCH MIN.	VARIAT	TON D	No _{TE}
e	IVIII V.	0.80 BSC	1417 1711		e	1411144	0.65 BSC	1017 17 13		e		0.50 BSC	1417 1711	_	e		0.50 BSC		Н
N		12		3	N		16		3	N		20		3	N		24		3
Nd		3		3	Nd		4		3	Nd		5		3	Nd		6		3
Ne		3		3	Ne		4		3	Ne		5		3	Ne		6		3
	0.50	0.60	0.75		L	0.50	0.60	0.75		L	0.50	0.60	0.75		L	0.30	0.40	0.50	
Ь	0.28	0.33	0.40	4	Ы	0.23	0.28	0.35	4	Ь	0.18	0.23	0.30	4	Ь	0.18	0.23	0.30	4

		=1/5.6	OED D.		TIOLI								
		EXPOSED PAD VARIATION											
PKG.		D2			E2								
CODE	MIN.	I NOM.	I MAX.	MIN.	I NOM.	MAX.							
G1244-2	1.95	2.10	2.25	1.95	2.10	2.25							
G1644-1	1.95	2.10	2.25	1.95	2.10	2.25							
G2044-3	1.95	2.10	2.25	1.95	2.10	2.25							
G2044-4	1.55	1.70	1.85	1.55	1.70	1.85							
00444 1	1.05	2.10	2.25	1.05	2.10	2.25							

DALLA: PROPRIETARY INFORMATION	S / VI / JX		/
PACKAGE 0 12,16,20,24L	OUTLINE L QFN, 4x4x0.90 MM		
APPROVAL	21-0106	reev. E	2/2

Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to www.maxim-ic.com/packages.)



	COMMON DIMENSIONS												
PKG	18	12L 4×4			16L 4×4)L 4×	4	24L 4×4			
REF.	MIN.	NDM.	MAX	MIN	NDM.	MAX.	MIN.	NDM.	MAX.	MIN.	NDM.	MAX	
Α	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80	
A1	0.0	20.0	0.05	0.0	0.02	0.05	0.0	20.0	0.05	0.0	0.02	0.05	
A2	0.20 REF			0	.20 RE	F	0.20 REF			0.20 REF			
b	0.25	0.30	0.35	0.25	0.30	0.35	0.20	0.25	0.30	0.18	0.23	0.30	
D	3,90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	
Ε	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	3.90	4.00	4.10	
6		.80 BS	C.	0.65 BSC.			0.50 BSC.			0.50 BSC.			
k	0.25	-	-	0.25	-	ı	0.25	ı	ı	0.25	ı	-	
L	0.45	0.55	0.65	0.45	0.55	0.65	0.45	0.55	0.65	0.30	0.40	0.50	
N		12			16			20			24		
ND		3			4			5			6		
NE	3			4			5			6			
Jedec Var.	WGGB			WGGC			WGGD-1			WGGD-2			

E	XPDS	SED	PAD	VAR					
PKG.		DS			E2				
CODES	MIN.	NDM.	MAX.	MIN.	NOM.	MAX.	BONDS ALLOWED		
T1244-2	1.95	2.10	2.25	1.95	2.10	2.25	ND		
T1244-3	1.95	2.10	2.25	1.95	2.10	2,25	YES		
T1244-4	1.95	2.10	2.25	1.95	2.10	2.25	ND		
T1644-2	1.95	2.10	2.25	1.95	2.10	2,25	ND		
T1644-3	1.95	2.10	2.25	1.95	2.10	2.25	YES		
T1644-4	1.95	2.10	2.25	1.95	2.10	2,25	ND		
T2044-1	1.95	2.10	2.25	1.95	2.10	2.25	ND		
T2044-2	1.95	2.10	2.25	1.95	2.10	2,25	YES		
T2044-3	1.95	2.10	2.25	1.95	2.10	2.25	ND		
T2444-1	2.45	2.60	2.63	2.45	2.60	2.63	ND		
T2444-2	1.95	2.10	2.25	1.95	2.10	2.25	YES		
T2444-3	2.45	2.60	2.63	2.45	2.60	2.63	YES		
T2444-4	2.45	2.60	2.63	2.45	2.60	2.63	ND		

NOTES:

- 1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
- 3. N IS THE TOTAL NUMBER OF TERMINALS.
- THE TERMINAL #1 IDENTIFIER AND TERMINAL #1 IDENTIFIER AND TERMINAL #1 IDENTIFIER AND TERMINAL #1 IDENTIFIER AND OFFICIAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER AND EE ETHER A MOLD OR MARKED FEATURE.
- DIMENSION 6 APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25 mm AND 0.30 mm FROM TERMINAL TIP.
- ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
- 7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
- (A) COPLANARITY APPLIES TO THE EXPOSED HEAT SINK SLUG AS WELL AS THE TERMINALS.
- 9. DRAWING CONFORMS TO JEDEC MO220, EXCEPT FOR T2444-1, T2444-3 AND T2444-4.



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