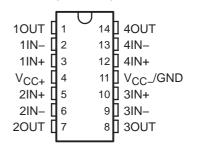
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- Low Offset . . . 3 mV (Max) for A-Grade
- Wide Gain-Bandwidth Product . . . 4 MHz
- High Slew Rate . . . 13 V/μs
- Fast Settling Time . . . 1.1 μs to 0.1%
- Wide-Range Single-Supply Operation ... 4 V to 36 V
- Wide Input Common-Mode Range Includes Ground (V_{CC})
- Low Total Harmonic Distortion . . . 0.02%
- Large-Capacitance Drive Capability
 ... 10,000 pF
- Output Short-Circuit Protection
- Alternative to MC33074/A and MC34074/A

description/ordering information



D, N, OR PW PACKAGE (TOP VIEW)

		ORDERING IN	FORMATION	这带	
TA	V _{IO} max AT 25°C	PACKA	GE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING
		PDIP (N)	Tube of 25	TL3474ACN	TL3474ACN
	l	0010 (D)	Tube of 50	TL3474ACD	TI 0.47.4.4
	A-grade: 3 mV	SOIC (D)	Reel of 2500	TL3474ACDR	TL3474A
	Omv	T0000 (DW)	Tube of 90	TL3474ACPW	T0.47.4.A
200 1- 7000		TSSOP (PW)	Reel of 2000	TL3474ACPWR	T3474A
0°C to 70°C		PDIP (N)	Tube of 25	TL3474CN	TL3474CN
	Standard grade: 10 mV	COIC (D)	Tube of 50	TL3474CD	TI 24740
		SOIC (D)	Reel of 2500	TL3474CDR	TL3474C
		TOCOD (DM)	Tube of 90	TL3474CPW	TI 0.474
		TSSOP (PW)	Reel of 2000	TL3474CPWR	TL3474
		PDIP (N)	Tube of 25	TL3474AIN	Z3474A
	l	0010 (D)	Tube of 50	TL3474AID	TI 0.47.4.4.1
	A-grade: 3 mV	SOIC (D)	Reel of 2500	TL3474AIDR	TL3474AI
	31117	TOOOD (DW)	Tube of 90	TL3474AIPW	704744
1000 / 10500		TSSOP (PW)	Reel of 2000	TL3474AIPWR	Z3474A
–40°C to 105°C		PDIP (N)	Tube of 25	TL3474IN	TL3474IN
		2010 (D)	Tube of 50	TL3474ID	TI 0.47.41
	Standard grade: 10 mV	SOIC (D)	Reel of 2500	TL3474IDR	TL3474I
	101111	T0000 (D)40	Tube of 90	TL3474IPW	70.47.4
		TSSOP (PW)	Reel of 2000	TL3474IPWR	Z3474

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

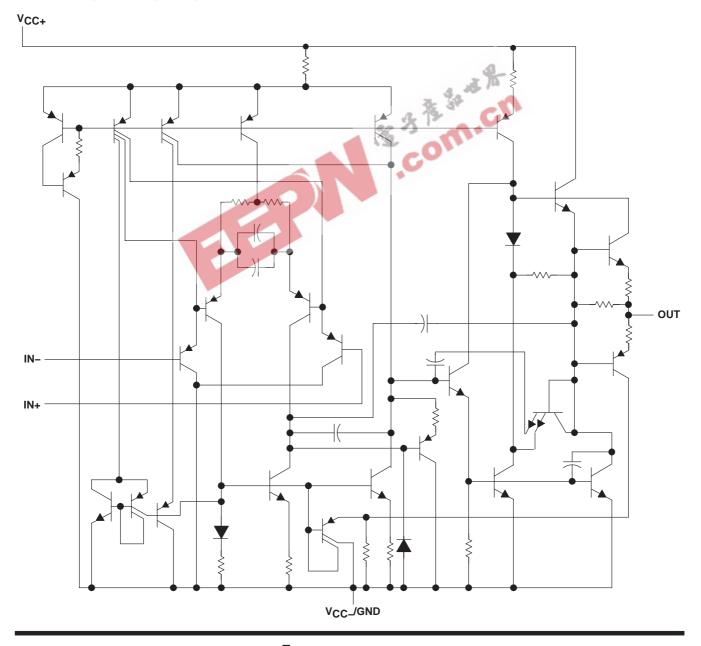


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description/ordering information (continued)

Quality, low-cost, bipolar fabrication with innovative design concepts is employed for the TL3474, TL3474A operational amplifiers. These devices offer 4 MHz of gain-bandwidth product, 13-V/µs slew rate, and fast settling time without the use of JFET device technology. Although the TL3474 and TL3474A can be operated from split supplies, they are particularly suited for single-supply operation because the common-mode input voltage range includes ground potential (V_{CC}-). With a Darlington transistor input stage, these devices exhibit high input resistance, low input offset voltage, and high gain. The all-npn output stage, characterized by no dead-band crossover distortion and large output voltage swing, provides high-capacitance drive capability, excellent phase and gain margins, low open-loop high-frequency output impedance, and symmetrical source/sink ac frequency response. These low-cost amplifiers are an alternative to the MC34074/A and MC33074/A operational amplifiers.

schematic (each amplifier)





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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage: Voc. (see Note 1)		18 \/
Supply voltage: V _{CC+} (see Note 1)		10 V
V _{CC}		
Differential input voltage, V _{ID} (see Note 2)		±36 V
Input voltage, V _I (any input)		
Input current, I _I (each input)		
Output current, I _O		
Total current into V _{CC+}		80 mA
Total current out of V _{CC}		80 mA
Duration of short-circuit current at (or below) 25°C (see		
Package thermal impedance, θ_{JA} (see Notes 4 and 5):	D package	86°C/W
, , ,	N package	
	PW package	113°C/W
Operating virtual junction temperature, T _J		150°C
Lead temperature 1.6 mm (1/16 inch) from case for 10	seconds	260°C
Storage temperature range, T _{stg}		

[†] 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 under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. All voltage values, except differential voltages, are with respect to the midpoint between V_{CC+} and V_{CC}_/GND.

- 2. Differential voltages are at the noninverting input with respect to the inverting input. Excessive input current can flow when the input is less than $V_{CC-} = 0.3 \text{ V}$.
- 3. The output can be shorted to either supply. Temperature and/or supply voltages must be limited to ensure that the maximum dissipation rating is not exceeded.
- 4. Maximum power dissipation is a function of $T_J(max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(max) T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability.
- 5. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions

				MIN	MAX	UNIT	
VCC±	Supply voltage			4	36	V	
V 0		li -	V _{CC} = 5 V	0	2.8	V	
VIC	Common-mode inp	out voitage	$V_{CC\pm} = \pm 15 \text{ V}$	-15	12.8	V	
т.	Operating free air t	to man a rati ira	TL3474C, TL3474AC	0 70		°C	
TA	Operating free-air t	temperature	TL3474I, TL3474AI	-40	105	-0	

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electrical characteristics at specified free-air temperature, $V_{CC\pm}$ = ± 15 V (unless otherwise noted)

	ADAMETED	TEST SOUD	ITIONIO	-		TL3474		٦	ΓL3474A	1	LINIT
Р	ARAMETER	TEST COND	IIIONS	TA	MIN	TYP [†]	MAX	MIN	TYP†	MAX	UNIT
	land offers		$V_{CC} = 5 V$	25°C		1.5	10		1.5	3	
V_{IO}	Input offset voltage		\/15\/	25°C		1.0	10		1.0	3	mV
	voltago		$V_{CC} = \pm 15 \text{ V}$	Full range‡			12			5	
ανιο	Temperature coefficient of input offset voltage	V _{IC} = 0, V _O = 0,	V _{CC} = ±15 V	Full range‡		10			10		μV/°C
1	Input offset	$R_S = 50 \Omega$	V 145.V	25°C		6	75		6	75	A
IIO	current		$V_{CC} = \pm 15 \text{ V}$	Full range‡			300			300	nA
l	Innut hing gurrant		V 145 V	25°C		100	500		100	500	nA
I _{IB}	Input bias current		$V_{CC} = \pm 15 \text{ V}$	Full range‡			700			700	ΠA
V _{ICR}	Common-mode input voltage	R _S = 50 Ω		25°C		–15 to 12.8			-15 to 12.8		V
TION	range		Full range‡		-15 to 12.8	A.		–15 to 12.8			
, High-level		$V_{CC+} = 5 \text{ V}, V_{CC-} = 0,$ $R_L = 2 \text{ k}\Omega$		25°C	3.7	4	c_{ij}	3.7	4		V
VOH	output voltage	$R_L = 10 \text{ k}\Omega$	25°C	13.6	14		13.6	14		V	
		$R_L = 2 k\Omega$		Full range‡	13.4			13.4			
M	Low-level	$V_{CC+} = 5 \text{ V}, V_{CC-} = R_L = 2 \text{ k}\Omega$	= 0,	25°C		0.1	0.3		0.1	0.3	V
VOL	output voltage	$R_L = 10 \text{ k}\Omega$		25°C		-14.7	-14.3		-14.7	-14.3	V
		$R_L = 2 k\Omega$		Full range‡			-13.5			-13.5	
A_{VD}	Large-signal differential	$V_0 = \pm 10 \text{ V, R}_1 = 21$	(0	25°C	25	100		25	100		V/mV
^\VD	voltage amplification			Full range‡	20			20			*/****
loo	Short-circuit	Source: V _{ID} = 1 V,	AO = 0	25°C	-10	-34		-10	-34		mA
los	output current	Sink: $V_{ID} = -1 V$,	AO = 0	25 0	20	27		20	27		ША
CMRR	Common-mode rejection ratio	$V_{IC} = V_{ICR}(min),$	$R_S = 50 \Omega$	25°C	65	97		80	97		dB
ksvr	Supply-voltage rejection ratio (ΔV _{CC±} /ΔV _{IO})	$V_{CC\pm} = \pm 13.5 \text{ V to } \pm 13.5 \text{ V to } \pm 100 \Omega$	16.5 V,	25°C	70	97		70	97		dB
		Vo = 0	No load	25°C		3.5	4.5		3.5	4.5	
ICC	Supply current	$V_{O} = 0,$	No load	Full range‡		4.5	5.5		4.5	5.5	mA
.00	(per channel)	$V_{CC+} = 5 \text{ V}, V_{O} = 2 \text{ V}_{CC-} = 0, \text{ No load}$.5 V,	25°C		3.5	4.5		3.5	4.5	



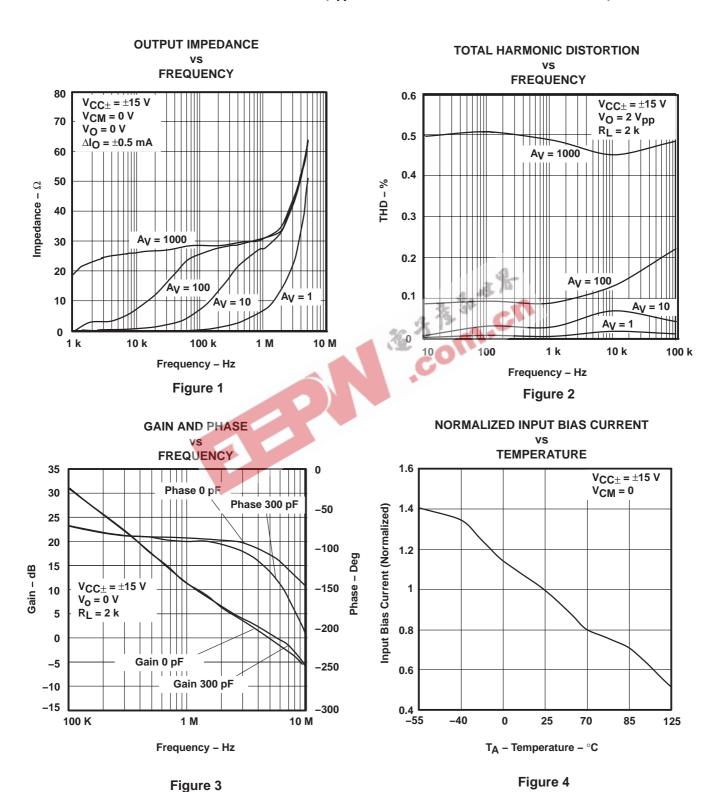
[†] All typical values are at $T_A = 25^{\circ}C$. ‡ Full range is 0°C to 70°C for the TL3474C, TL3474AC devices and -40°C to 105°C for the TL3474I, TL3474AI devices.

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operating characteristics, $V_{CC\pm}$ = ± 15 V, T_A = $25^{\circ}C$

				-	TL3474		Т	L3474A		LINUT
	PARAMETER	TEST CONDITION	ONS	MIN	TYP	MAX	MIN	TYP	MAX	UNIT
SR+	Positive slew rate	$V_{I} = -10 \text{ V to } 10 \text{ V},$	A _V = 1	8	10		8	10		.,,
SR-	Negative slew rate	$R_L = 2 k\Omega$, $C_L = 300 pF$	A _V = -1	13		13		V/μs		
t _S	Settling time	$A_{VD} = -1$, 10-V step	To 0.1%		1.1			1.1		μs
		VD ,	To 0.01%		2.2			2.2		
Vn	Equivalent input noise voltage	f = 1 kHz,	$R_S = 100 \Omega$		49			49		nV/√ Hz
In	Equivalent input noise current	f = 1 kHz			0.22			0.22		pA/√ Hz
THD	Total harmonic distortion	$V_{O(PP)} = 2 \text{ V to } 20 \text{ V, R}_{L} = A_{VD} = 10, f = 10 \text{ kHz}$	= 2 kΩ,		0.02			0.02		%
GBW	Gain-bandwidth product	f =100 kHz		3	4		3	4		MHz
BW	Power bandwidth	$V_{O(PP)} = 20 \text{ V, R}_{L} = 2 \text{ k}\Omega,$ $A_{VD} = 1, \text{ THD} = 5.0\%$			160			160		kHz
		$R_L = 2 k\Omega$,	C _L = 0		70			70		
φm	Phase margin	$R_L = 2 k\Omega$,	C _L = 300 pF	40	50	Α.		50		deg
		$R_L = 2 k\Omega$,	C _L = 0	3	12			12		-
	Gain margin	$R_L = 2 k\Omega$,	$C_L = 300 \text{ pF}$	-40	4			4		dB
rį	Differential input resistance	VIC = 0	C	0,,	150			150		МΩ
Ci	Input capacitance	VIC = 0			2.5			2.5		pF
	Channel separation	f = 10 kHz			101			101		dB
z ₀	Open-loop output impedance	f = 1 MHz,	A _V = 1		20			20		Ω

TYPICAL CHARACTERISTICS (T_A = 25°C UNLESS OTHERWISE NOTED)





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TYPICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ UNLESS OTHERWISE NOTED)

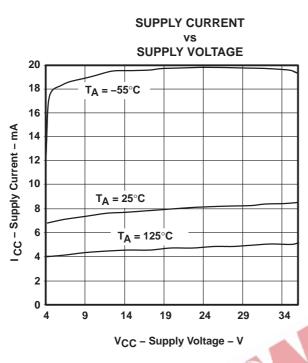


Figure 5

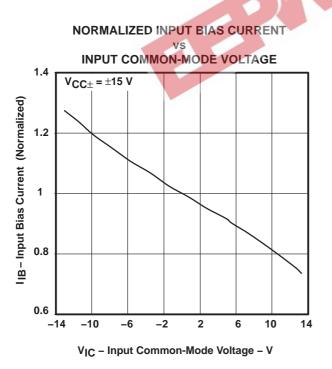


Figure 7

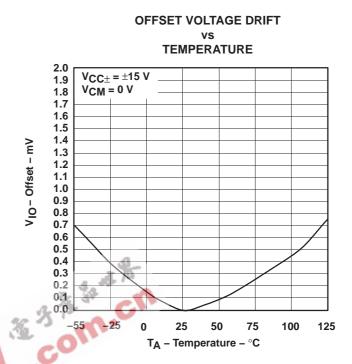


Figure 6

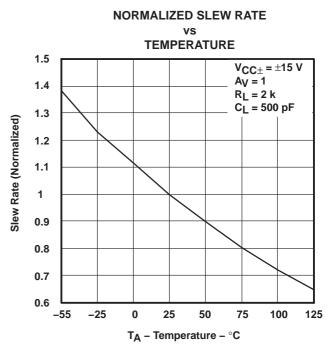
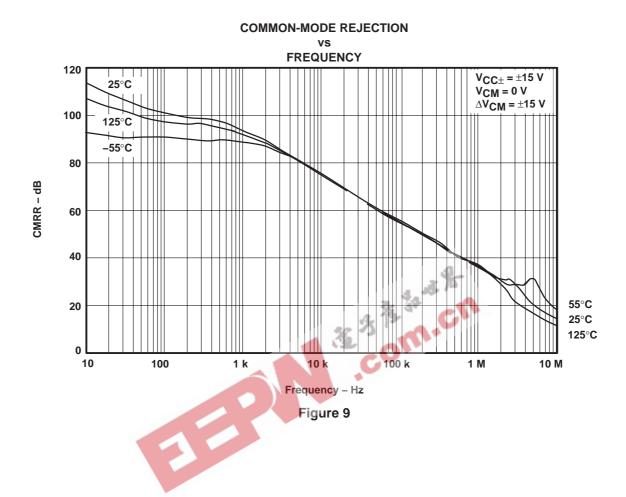


Figure 8

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TYPICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ UNLESS OTHERWISE NOTED)







24-May-2007

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp (3)
TL3474ACD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACDRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474ACNE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474ACPW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACPWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACPWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACPWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ACPWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AID	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIDRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474AINE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474AIPW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIPWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIPWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM





24-May-2007

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TL3474AIPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIPWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474AIPWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CDRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474CNE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474CPW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CPWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CPWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CPWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474CPWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474ID	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IDE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IDRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474INE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TL3474IPW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM



PACKAGE OPTION ADDENDUM

24-May-2007

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TL3474IPWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IPWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IPWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3474IPWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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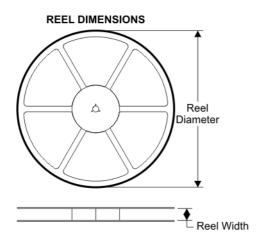
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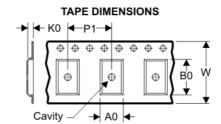


PACKAGE MATERIALS INFORMATION

5-Oct-2007

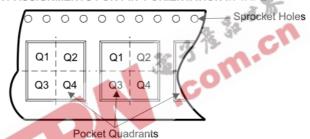
TAPE AND REEL BOX INFORMATION





	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPES

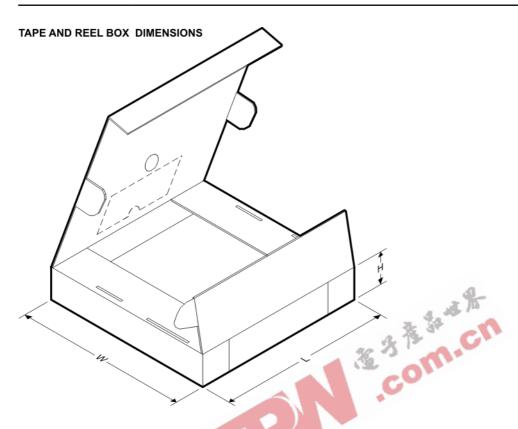


Device	Package	Pins	Site	Reel Diameter (mm)	Reel Width (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
TL3474ACDR	D	14	SITE 27	330	16	6.5	9.0	2.1	8	16	Q1
TL3474ACPWR	PW	14	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1
TL3474AIDR	D	14	SITE 27	330	16	6.5	9.0	2.1	8	16	Q1
TL3474AIPWR	PW	14	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1
TL3474CDR	D	14	SITE 27	330	16	6.5	9.0	2.1	8	16	Q1
TL3474CPWR	PW	14	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1
TL3474IDR	D	14	SITE 27	330	16	6.5	9.0	2.1	8	16	Q1
TL3474IPWR	PW	14	SITE 41	330	12	7.0	5.6	1.6	8	12	Q1





5-Oct-2007

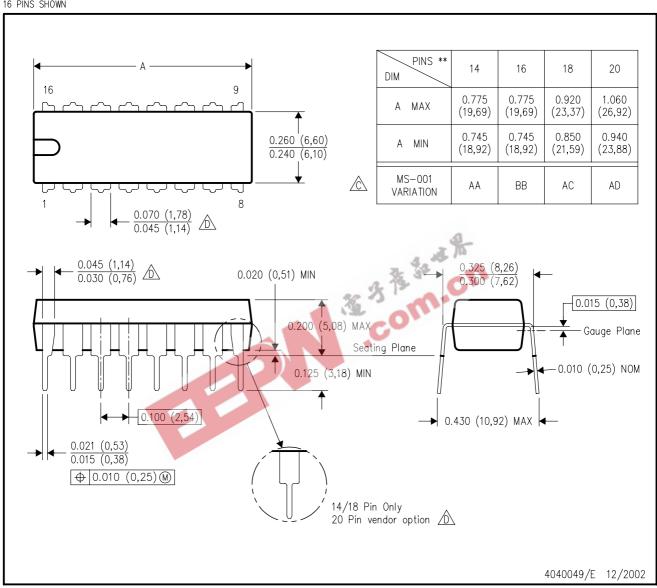


Device	Package	Pins	Site	Length (mm)	Width (mm)	Height (mm)
TL3474ACDR	D i	14	SITE 27	342.9	336.6	28.58
TL3474ACPWR	PW	14	SITE 41	346.0	346.0	29.0
TL3474AIDR	D	14	SITE 27	342.9	336.6	28.58
TL3474AIPWR	PW	14	SITE 41	346.0	346.0	29.0
TL3474CDR	D	14	SITE 27	342.9	336.6	28.58
TL3474CPWR	PW	14	SITE 41	346.0	346.0	29.0
TL3474IDR	D	14	SITE 27	342.9	336.6	28.58
TL3474IPWR	PW	14	SITE 41	346.0	346.0	29.0

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

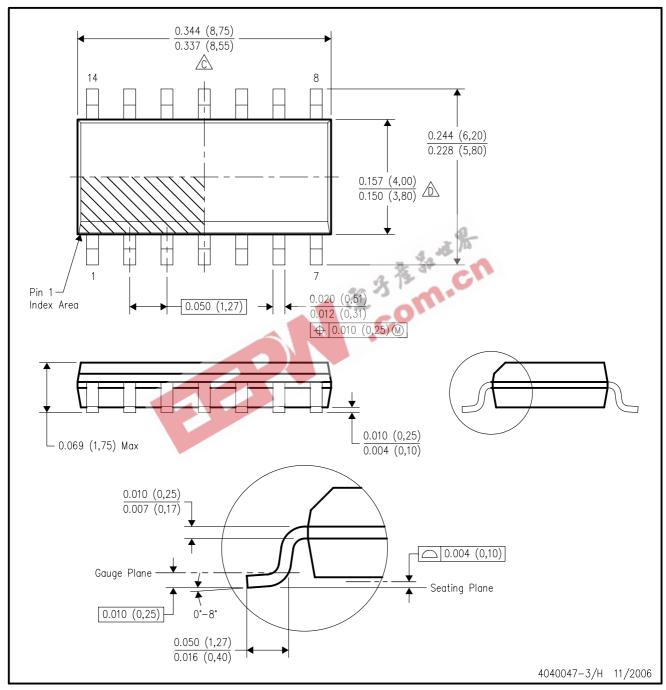


NOTES:

- All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.

D (R-PDSO-G14)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.

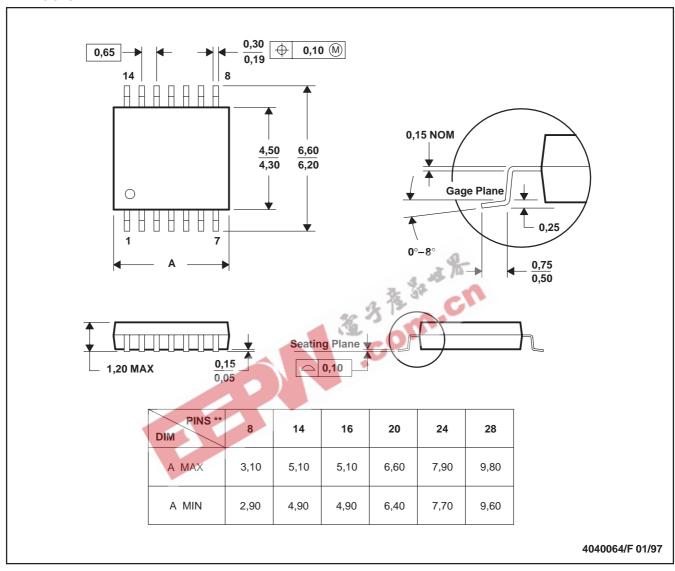
 E. Reference JEDEC MS-012 variation AB.



PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.

D. Falls within JEDEC MO-153

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