

AN6554, AN6554NS

Quadruple Operational Amplifiers

■ Overview

The AN6554 and the AN6554NS are quadruple operational amplifiers with phase compensation circuits built-in.

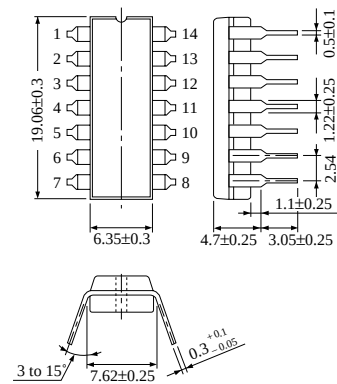
They are suitable for application to various electronic circuits such as active filters and audio pre-amplifiers.

■ Features

- Phase compensation circuit built-in
- High voltage gain, low noise
- Output short-circuit protection built-in

AN6554

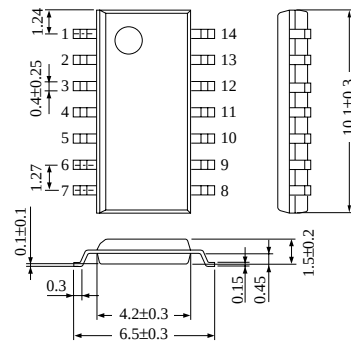
Unit:mm



14-pin DIL Plastic Package (DIP014-P-0300D)

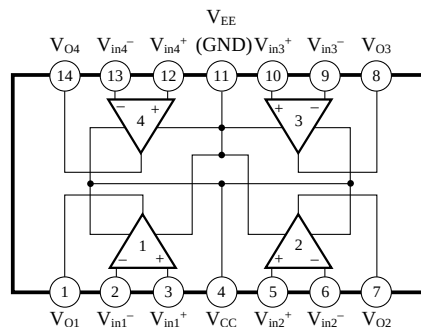
AN6554NS

Unit:mm



14-pin PANAFLAT Plastic Package (SOP014-P-0225A)

■ Block Diagram



■ Electrical Characteristics ($V_{CC}=15V$, $V_{EE}=-15V$, $T_a=25^{\circ}C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Input offset voltage	$V_{I(offset)}$	$R_S \leq 10k\Omega$	—	0.5	5	mV
Input offset current	I_{IO}		—	5	50	nA
Input bias current	I_{bias}		—	100	300	nA
Voltage gain	G_V	$R_L \geq 2k\Omega$, $V_O = \pm 10V$	88	100	—	dB
Maximum output voltage	$V_{O(max.1)}$	$R_L \geq 10k\Omega$	± 12	± 14	—	V
	$V_{O(max.2)}$	$R_L \geq 2k\Omega$	± 10	± 13	—	V
Common-mode input voltage width	V_{CM}		± 12	± 14	—	V
Common-mode rejection ratio	CMR		70	90	—	dB
Supply voltage rejection ratio	SVR		—	30	100	$\mu V/V$
Power consumption	P_C		—	—	240	mW
Slew rate	SR		—	1.6	—	V/ μs
Equivalent input noise voltage	V_{ni}	$R_S=1k\Omega$, B=10Hz to 30kHz	—	2.5	—	μV_{rms}
Channel separation	Sep	f=10kHz	—	110	—	dB

■ Characteristics Curve

