



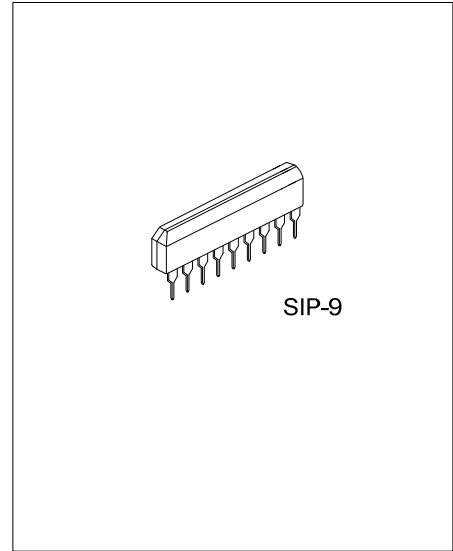
A6225

LINEAR INTEGRATED CIRCUIT

DUAL PRE-AMPLIFIER

■ FEATURES

- * Dual pre amplifier for car or home stereo use.
- * High voltage gain: $G_{VO} = 100\text{dB}$ (Typ.) at $f = 1\text{kHz}$.
- * Excellent channel separation and high ripple rejection
 - : $CS = 65\text{dB}$ (Typ.)
 - ($f = 10\text{kHz}$, $R_G = 2.2\text{k}\Omega$, $V_{OUT} = 0\text{dBm}$)
 - : $RR = 50\text{dB}$ (Typ.)
- * Low noise: $V_{NI} = 1.0\mu\text{V}$ (Typ.) at $R_G = 2.2\text{k}\Omega$, $Bw = 20\text{Hz} \sim 20\text{kHz}$
- * Wide operating supply voltage range: $V_{CC} = 6 \sim 16\text{V}$ ($T_A = 25^\circ\text{C}$)

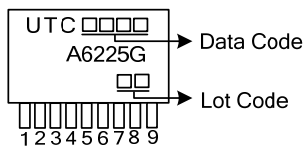


■ ORDERING INFORMATION

Ordering Number	Package	Packing
A6225G-G09-T	SIP-9	Tube

<p>A6225G-G09-T</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) T: Tube (2) G09: SIP-9 (3) G: Halogen Free and Lead Free</p>
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■ MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V_{CC}	16	V
Power Dissipation (Note 2)	P_D	700	mW
Operating Temperature	T_{OPR}	-20 ~ +85	$^\circ\text{C}$
Storage Temperature	T_{STG}	-40 ~ +150	$^\circ\text{C}$

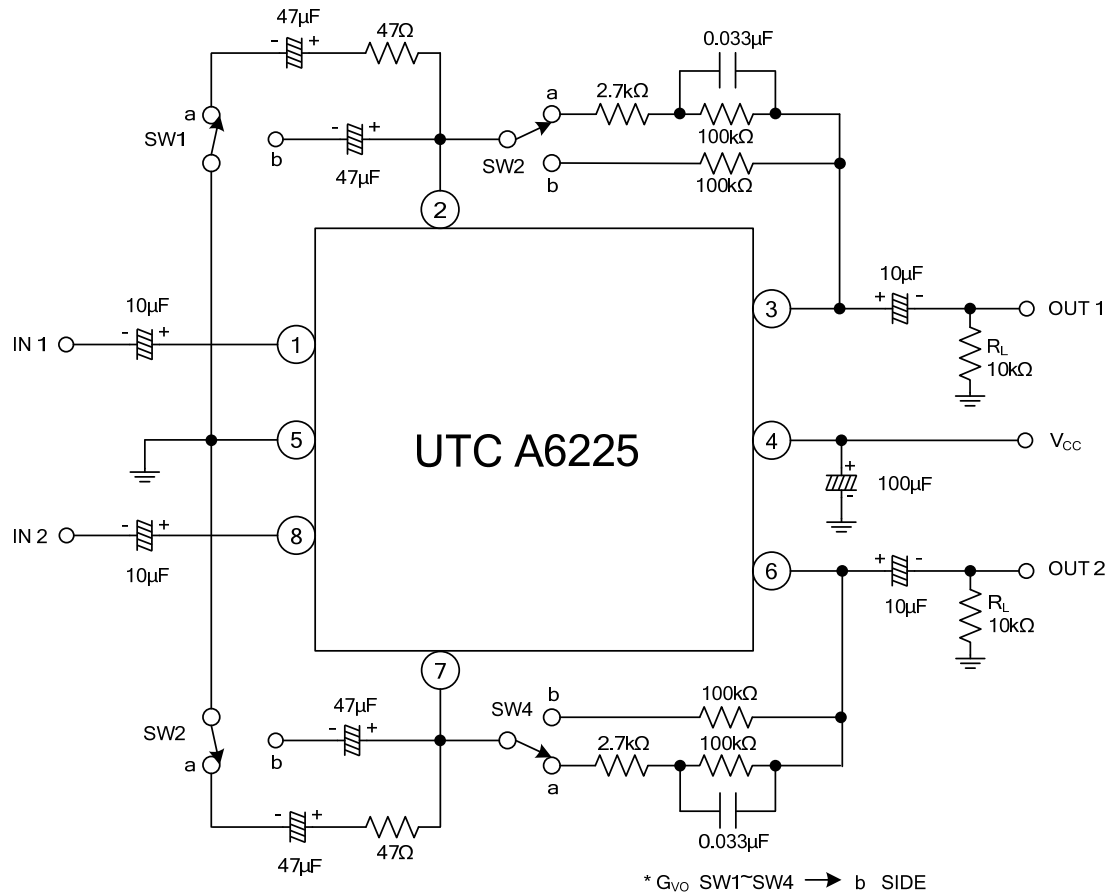
Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
 2. Derated above $T_A = 25^\circ\text{C}$ in the Proportion of $5.6\text{mW}/^\circ\text{C}$.

■ ELECTRICAL CHARACTERISTICS

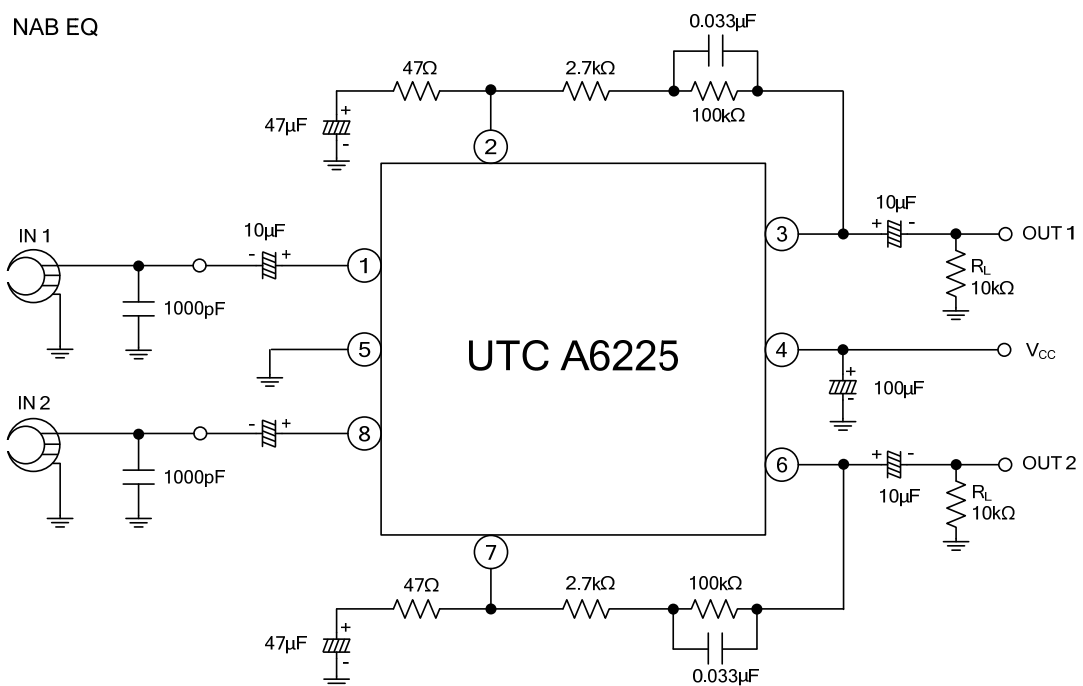
($T_A=25^\circ\text{C}$, V_{CC} 6V, $R_G=600\Omega$, $R_L=10\text{k}\Omega$, $f=1\text{kHz}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Current	I_{CC}	$V_{IN} = 0\text{V}$		3	6	mA
Voltage Gain	OPEN	G_{VO}	$V_{OUT} = 0\text{dBm}$	75	100	dB
	CLOSED	G_{VC}	$V_{OUT} = 0\text{dBm}$	38.5	41.5	
Maximum Output Voltage	$V_{O(MAX)}$	THD = 1%	1.0	1.8		V
Equivalent Input Noise Voltage	$V_{IN(NO)}$	$R_G = 2.2\text{k}\Omega$, BPF = 20Hz ~ 20kHz		1.0	1.7	μV
Input Resistance	R_{IN}		50	150		$\text{k}\Omega$
Channel Separation	CS	$f = 10\text{kHz}$, $V_{OUT} = 0\text{dBm}$		65		dB
Ripple Rejection	RR	$f = 10\text{kHz}$, $R_G = 2.2\text{k}\Omega$		50		dB
Total Harmonic Distortion	THD	$V_{OUT} = 0\text{dBm}$		0.04	0.25	%

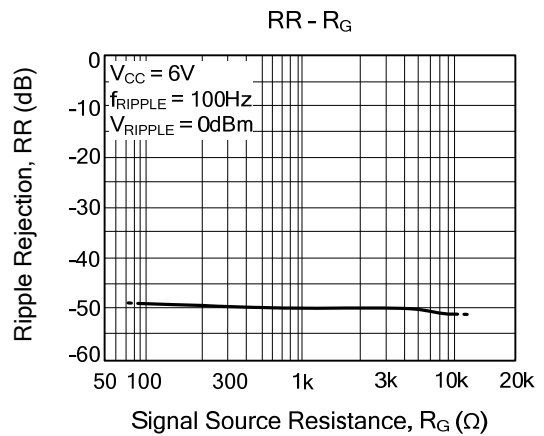
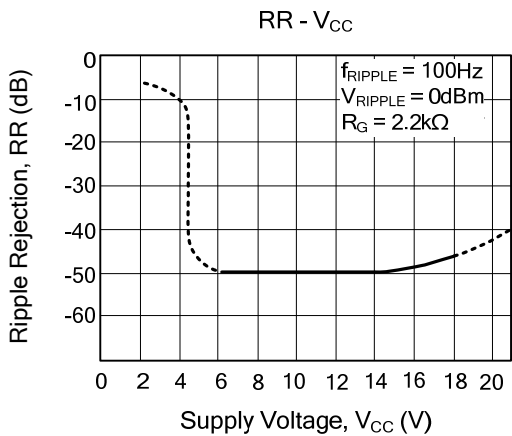
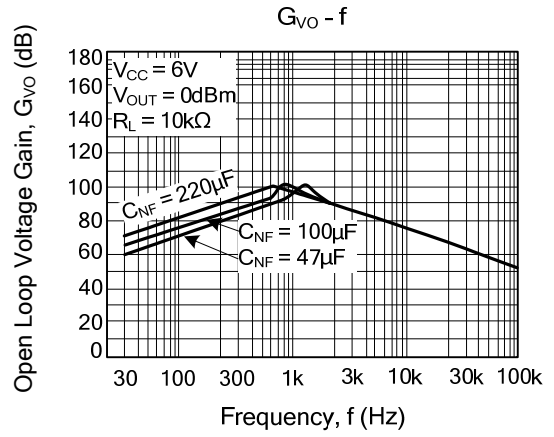
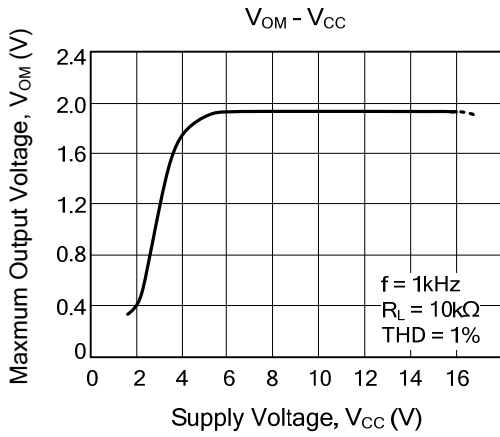
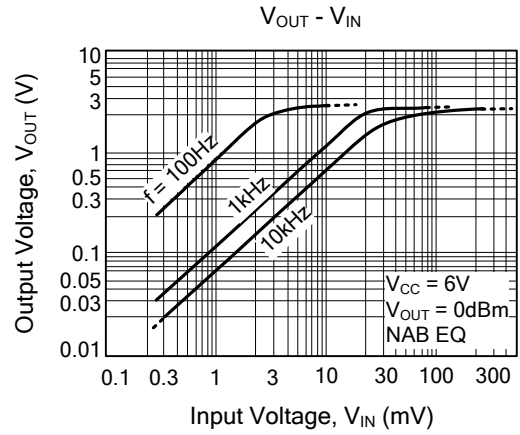
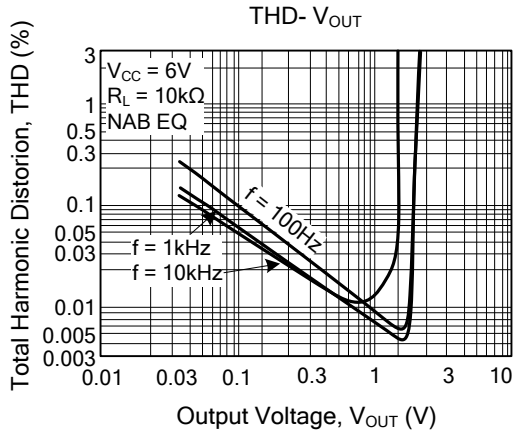
TEST CIRCUIT



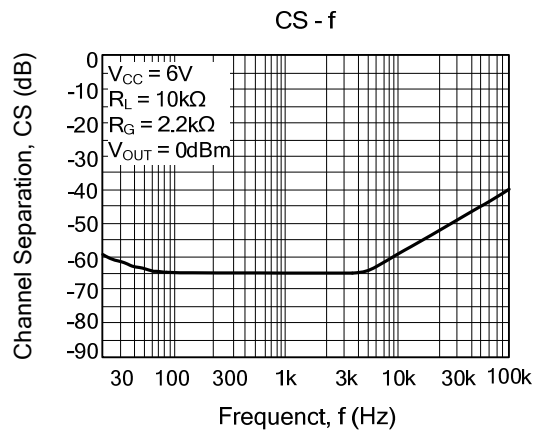
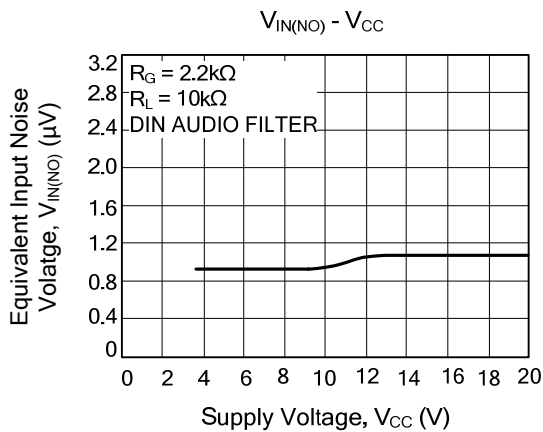
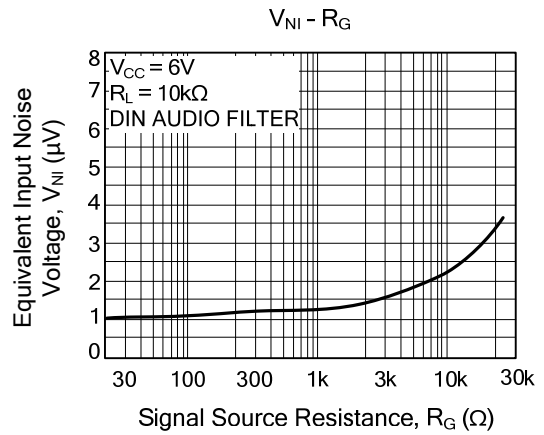
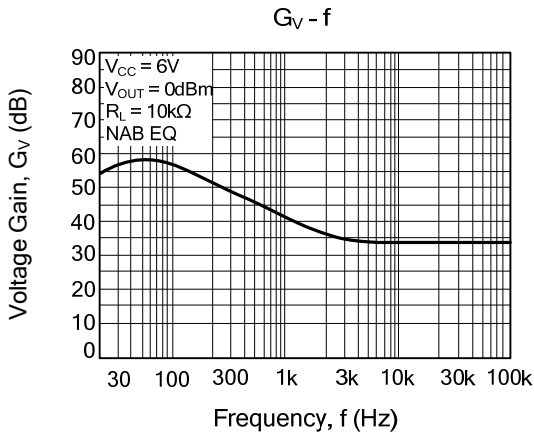
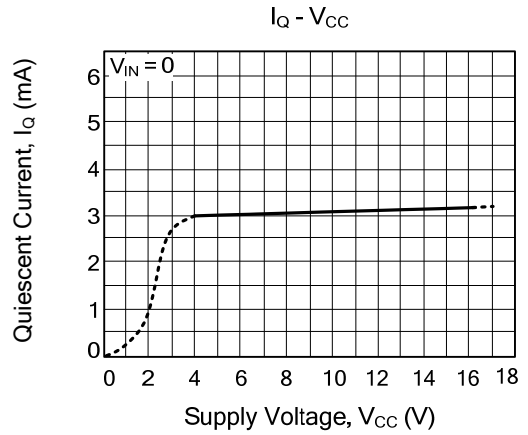
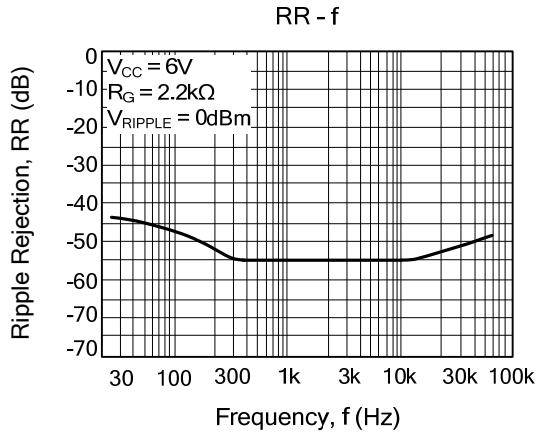
TYPICAL APPLICATION CIRCUIT



■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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