

Single-chip voice recording & playback device

Model: APR9301-V2

Features:

- 1- Single-chip, high quality voice recording & playback solution
 - No external ICs required
 - Minimum external components
- 2- Non-volatile flash memory technology
 - No battery backup required
 - 100K record cycles (typical)
 - 100-year message retention (typical)
- 3- Single message of 20 to 30 seconds, with external resistor selection
- 4- User-friendly, easy to use operation
 - Programming & development systems are not required
 - Level-activated recording & edge-activated playback switches
- 5- Low power consumption
 - Operating current: 25mA (no load)
 - Automatic power-down feature for longer battery life
- 6- Chip enable pin for simple message expansion
- 7- Single 6V power supply



Absolute maximum ratings:

Item	Symbol	Condition	Min	Max	Unit
Power supply voltage	V_{CC}	$T_A=25^{\circ}\text{C}$	5.5	6.5	V
Input voltage	V_{IN1}	$T_A=25^{\circ}\text{C}$	-0.3	$V_{CC}+0.3$	
Input voltage	V_{IN2}	$ I_{IN} < 20\text{mA}$	-1	$V_{CC}+1.0$	V
Storage temperature	T_{STG}	-	-65	150	$^{\circ}\text{C}$
Temperature under bias	T_{BS}	-	-65	125	$^{\circ}\text{C}$
Lead temperature	T_{LD}	$<10\text{s}$		300	$^{\circ}\text{C}$

Bonding Pad Diagram:

