

# DATA SHEET

Part No.	AN12909A
Package Code No.	*QFP028-P-0405B

Maintenance/Discontinued includes following product lifecycle stage.  
planned maintenance type  
maintenance type  
planned discontinued type  
discontinued type  
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Maintenance/Discontinued includes following four Product lifecycle stage  
Discontinued  
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# AN12909A

For DSC (Digital Still Camera) Audio Processing IC

■ Function

- Input AGC, MIC Supply, LINE Amplifier, BTL Amplifier

■ Applications

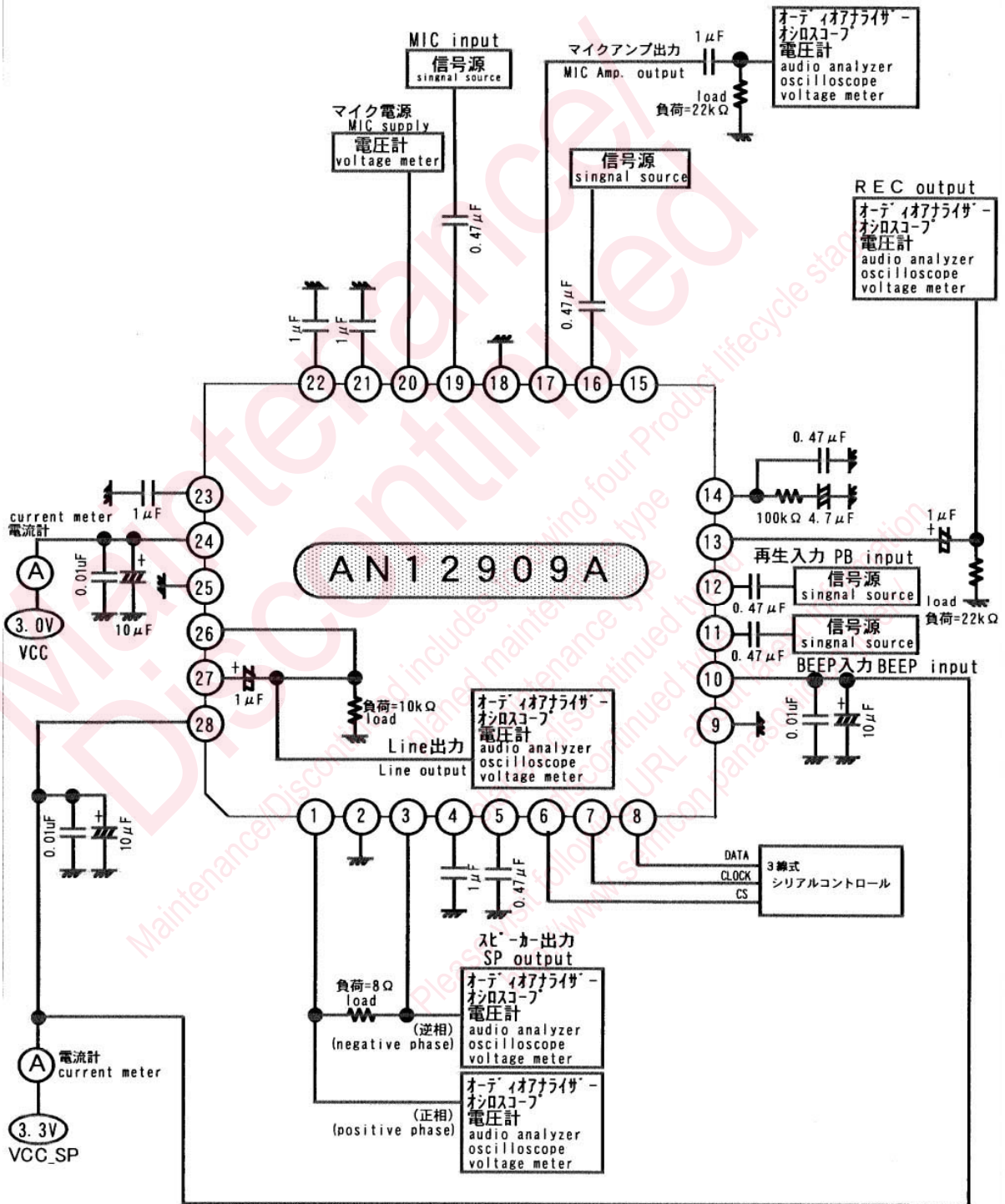
- DSC

■ Package

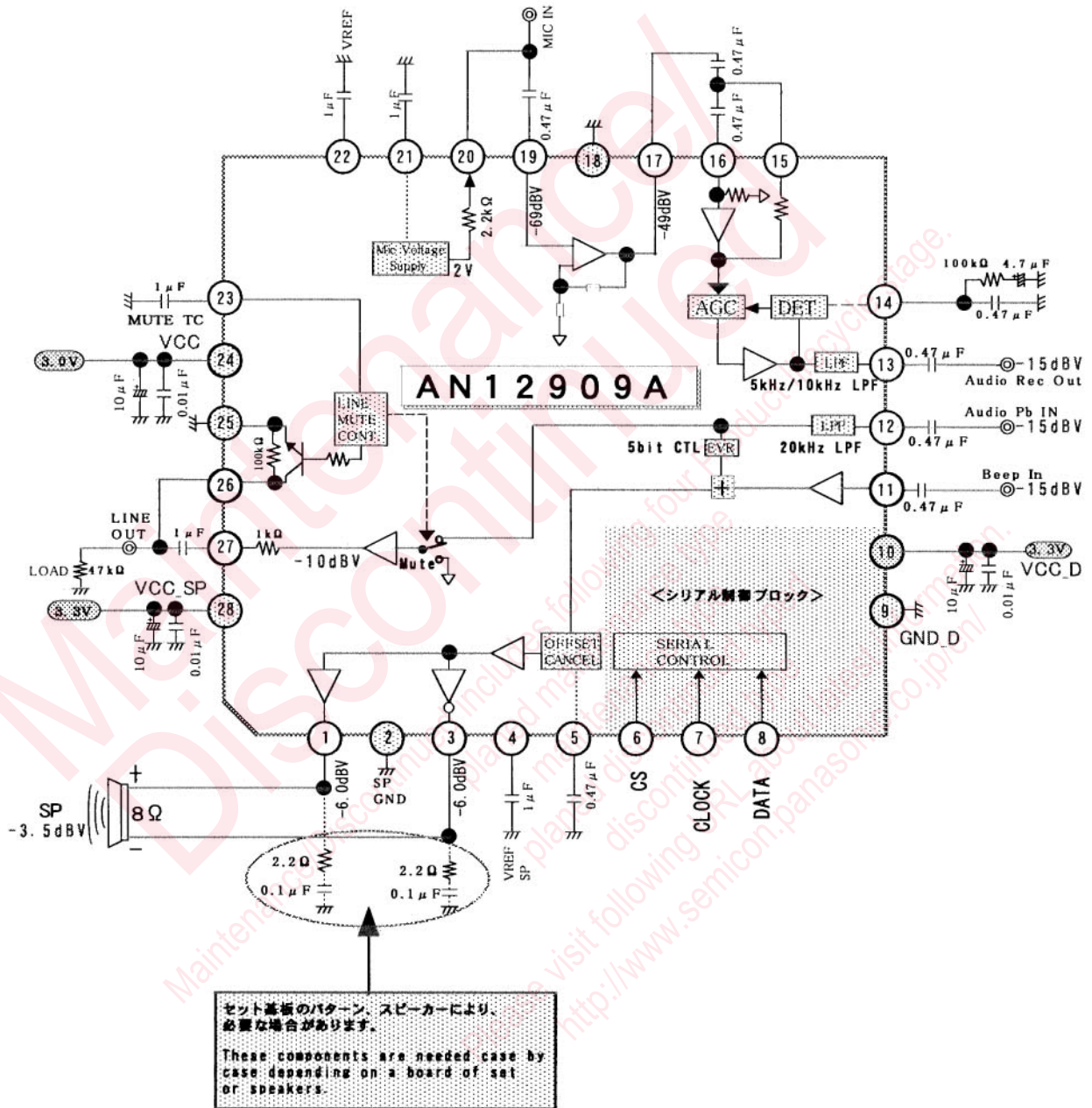
- 4Directions - 28Pin Plastic Quad Flat Non-leaded Package (QFP Type)

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■ Test Circuit Diagram



■ Block Diagram



## ■ Pin Descriptions

Pin No.	Function	Pin No.	Function
1	SP output (+)	15	Noise for wind HPF output
2	GND (for SP)	16	Noise for wind HPF OP amp. input
3	SP output (-)	17	MIC amp. output
4	$1/2 V_{CC\_SP} (V_{RFE\_SP})$	18	GND
5	Offset cancel pin for SP	19	MIC amp. input
6	CS	20	MIC supply
7	CLOCK	21	MIC supply filter
8	DATA	22	$1/2 V_{CC} (V_{RFE})$
9	GND_D	23	Mute timing C
10	$V_{CC\_D}$	24	$V_{CC}$
11	Beep input	25	GND
12	Playback input	26	TR for line mute
13	REC output	27	Line output
14	AGC demodulation pin	28	$V_{CC\_SP}$ (for SP drive)

### ■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit
1	Storage temperature	$T_{stg}$	-55 to +150	°C
2	Operating ambient temperature	$T_{opr}$	-20 to +70	°C
3	Operating ambient atmospheric pressure	$P_{opr}$	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa
4	Operating constant gravity	$G_{opr}$	9 810	m/s <sup>2</sup>
5	Operating shock	$S_{opr}$	4 900	m/s <sup>2</sup>
6	Supply voltage	$V_{CC}$	3.6	V
		$V_{CC\_SP}$	3.6	
		$V_{CC\_D}$	3.6	
7	Supply current	$I_{CC}$	—	A
8	Power dissipation	$P_D$	224	mW

Note) \*1: Expect for the operating ambient temperature and storage temperature, all ratings are for  $T_a = 25^\circ\text{C}$

\*2: The range under absolute maximum ratings, power dissipation.

\*3: The above power dissipation shows the package dissipation of the IC without heat sink at  $T_a = 70^\circ\text{C}$

### ■ Operating Supply Voltage Range

Operating supply voltage range	$V_{CC}$	2.7 to 3.5	V
	$V_{CC\_SP}$	2.7 to 3.5	
	$V_{CC\_D}$	2.7 to 3.5	

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