General Purpose Linear ICs

■ Analog Master Slice

● Line-ups

Name of series	Supply voltage	Device characteristics						Remarks
		NPN Transistors			PNP Transistors			
		f_T,max	BV_{CEO}	h_{FE}	f_T,max	BV_{CEO}	h_{FE}	
AN9DX00	≦12V	2.6GHz	14.4V	100 to 250	1.0GHz	14.4V	66 to 200	
AN9CX00	≦5V	1.0GHz	7V	80 to 250	500MHz	7V	80 to 250	
AN9AX00	≦30V	200MHz	36V	125 to 400	6MHz	36V	125 to 500	

● AN9DX00 Series

Type No.			AN9DA00	AN9DB00	AN9DC00	*AN9DD00	AN9DE00	Remarks
No. of pads			28	36	55	75	64	
Total number of elements			1287	2424	3854	6602	5106	
No. of transistors			306	600	920	1610	1288	
	NPN	A11			320	560	448	Basic size
		A21			160	280	224	2 times size
		A62P	8	8				62 times size
		B11	126	252				Basic size (with surrounded CW)
	PNP	LA1	84	168				Basic size (lateral)
		LA4S	4	4				8 times size (lateral)
		V11	84	168	320	560	448	Basic size (vertical)
		V21			120	210	168	2 times size (vertical)
No. of resistors			969	1800	2854	4852	3706	
	SP	5k	474	888	1408	2440	1728	
		10k	198	336	480	800	640	
	SP2	2.5k	291	576	966	1612	1338	Resistance variable
No. of capacitors		5p	12	24	80	140	112	

*: Under development

● AN9CX00 Series

Type No.			*AN9CA00	AN9CB00	Remarks
No. of pads			40	52	
Total number of elements			2370	4248	
No. of transistors			432	768	
	NPN	N11	216	384	Basic size
	PNP	P11	216	384	Basic size (vertical)
No. of resistors			1866	3352	
	PW	10k	360	640	
		20k	324	576	
		50k	48	64	
	SP	2k	684	1216	Resistance variable
		4k	90	168	Resistance variable
		5k	360	688	Resistance variable
No. of capacitors		5p	72	128	

*: Under development

● AN9AX00 Series

Type No.			AN9AA00	Remarks
No. of pads			28	
Total number of elements			844	
No. of transistors			188	
	NPN	W11	96	Basic size
		W62P	10	62 times size
	PNP	LA1	80	Basic size (lateral)
		LA10	2	10 times size (lateral)
No. of diodes			9	
	ZD	6.4V	9	Zener diode
No. of resistors			652	
	SP	2k	608	Resistance variable
	SQ	50k	40	
	Epitaxial	100k	4	
No. of capacitors			4	
		10p	2	
		15p	2	

● Package List

Name of series		AN9DX00 Series					AN9CX00 Series		AN9AX00 Series
Name of master		AN9DA00	AN9DB00	AN9DC00	AN9DD00	AN9DE00	AN9CA00	AN9CB00	AN9AA00
Package	No. of pins								
DIP	16	○							
	18	○							
	20	○	○						
	22	○	○						
	24	○							
	28	○	○	○		○			○
SDIP	20	○							
	22	○							
	24	○	○						○
	28			○		○	○		
	42		○	○					○
	52			○		○			
SO	18	○	○						
	20	○	○						
	22	○	○						○
	24	○	○						○
	28	○	○	○		○	○		○
QFP	32	○	○				○		○
	44		○	○			○	○	○
	48		○	○	○	○	○	○	○
	64		○	○	○	○		○	○
	80			○	○			○	
	84				○			○	

■ Operational Amplifier Series (V_{CC} = 15V, V_{EE} = −15V)

Category		Functions	Type No.	Package		Operating Power Supply Voltage Range		Power Consumption max (mW)	Input Offset Voltage max (mV)	Input Offset Current max (nA)	Input Bias Current max (nA)	Output Voltage min (V)	Slew Rate typ (V/μs)	Noise Voltage Converted to Input typ (μVrms)
					No.	(V)	(V)							
Single power supply	General-use	Dual	AN6561	SIP009-P-0000C	B17	±1.5 to ±15	3 to 30	6	7*1	50*1	250*1	V_{CC} -1.5*1	0.3*1	6.0*1
			AN6561L	SIP009-P-0000D	B18			6						
			AN1358 (AN6562)	DIP008-P-0300B	B35			6						
			AN1358S (AN6562S)	SOP008-P-0225A	B60			6						
		Quad	AN1324 (AN6564)	DIP014-P-0300D	B37			10						
			AN1324NS (AN6564NS)	SOP014-P-0225A	B63			10						
	High output	Dual	AN6567	SIP009-P-0000D	B18	±1.5 to ± 7.5	3 to 15	35*1	5*1	100*1	500*1	3.3*1 (V_{CC} = 5V)	1.0*1	—
			AN6568	DIP008-P-0300B	B35									
			AN6568S	SOP008-P-0225A	B60									
	Reference voltage built-in	Single	AN6500	DIP008-P-0300B	B35	±1.5 to ±12	3 to 24	20*1	7*1	300*1	500*1	3.5*1 (V_{CC} = 5V)	0.6*1	—
			AN6500S	SOP008-P-0225A	B60									
			AN6501	SIP007-P-0000	B14									

*1 V_{CC} = 5V, V_{EE} = 0V, *2 V_{CC} = 2.5V, V_{EE} = −2.5V Note) Type No. in ( ) is same chip. Only type No. is different.
(Package Symbol) DIP = Dual-In-Line Package, SIP = Single-In-Line Plastic Package, SOP = Small Outline Package (PANAFLAT PACKAGE)