v.0.2

АЦП	**CS5381**	**AK5393**	**AK5394A**	**PCM1804**	**PCM4201**	**PCM4202**	**WM8786**	**AD1955**	**ADC20048**	**MAX11905**
	24	24	24	24	24	24	24	24	20	20
OPERATING CONDITIONS										
DC Power Supply (Positive Analog Typ), V	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	± 15	1,80
DC Power Supply (Positive Digital Typ), V	3,30	3,30	3,30	3,30	3,30	3,30	3,30	5,00	5,00	1,80
DC Power Supply (Positive Logic Min), V	2,37									
DC Power Supply (Positive Logic Max), V	5,25									
Operating Temperature Min, °C	-10	-10	-10	-10	-10	-10	-25	-40	0	-40
Operating Temperature Max, °C	70	70	70	70	70	70	85	85	60	85
ANALOG CHARACTERISTICS										
48 kHz, Dynamic Range, dB	117	117	120	112	109	116	111	120	108	99
48 kHz,THD+N, (-1 dB), dB	-110	-105	-110	-102	-105	-105	-102	-110	-97	-120
48 kHz,THD+N, (-20 dB), dB	-97	-94	-100						-99	
48 kHz,THD+N, (-60 dB), dB	-57	-54	-60	-49					-107	
96 kHz, Dynamic Range, dB	117	117	120	112	106	118	111	120		
96 kHz,THD+N, (-1 dB), dB	-110	-103	-110	-101	-103	-105	-102	-110		
96 kHz,THD+N, (-20 dB), dB	-97	-85	-97							
96 kHz,THD+N, (-60 dB), dB	-57	-45	-57	-47						
192 kHz, Dynamic Range, dB	117		120	112		117	111	120		
192 kHz,THD+N, (-1 dB), dB	-110		-94	-101		-103	-102	-110		
192 kHz,THD+N, (-20 dB), dB	-97		-92							
192 kHz,THD+N, (-60 dB), dB	-57		-52	-47						

S/N, dB		120	120	111			108	120		98
Differential Non-linearity, LSB									± 0.2	± 0.5
Integral Linearity, %									± 0.002	
Integral Linearity, LSB										± 1.5
48 kHz,Interchannel Isolation, dB	110	120	120	109		120		125		
96 kHz,Interchannel Isolation, dB	110	120	120	107		120		125		
192 kHz,Interchannel Isolation, dB	110	120	120	107		120		125		
Interchannel Gain Mismatch, dB	0,1	0,1	0,1				0,1	0,01		
Interchannel Gain Mismatch, % FSR				± 3		± 3				
Gain Error, % FSR	± 5			± 4	± 4	± 4		± 6		
Gain Error, dB									± 0.02	
Gain Error, LSB										± 10
Gain Drift, ppm/°C	±100	150	150					25		
Gain Drift, dB									± 0.05	± 0.12
Offset Error (High-Pass Filter Off), % FSR				± 0.2	± 4	± 4			0.1	
Offset Error (High-Pass Filter Off), LSB	100	200	1000							± 1
Offset Error (High-Pass Filter On), LSB	0	1	1						/	/
Offset Drift (High-Pass Filter Off), LSB/°C		± 10	± 10							± 0.01
Offset Drift, LSB/°C									5	
Offset Calibration Range (DHPF Off), mV		± 50	± 50						/	/
Full-scale Input Voltage, Vpp	1.13*VA	±2.4	±2.4		±2.5	±3	2		±5	±3.3
Input Impedance (Differential), kΩ	2,5	4			15	3	10		8	var
Common Mode Rejection Ratio (CMRR), dB	100				100	85			60	
LSB Resolution (Ref=3.3V), uV	0,2*	0,2*	0,2*	0,2*	0,2*	0,2*	0,2*	0,2*	10	6,3

(*) approx.

DIGITAL FILTER CHARACTERISTICS

48 kHz, Group Delay, s	12/Fs	38.7/fs	63/fs	37/fs	37/fs	37/fs	32/fs	177/fs	/	/
96 kHz, Group Delay, s	9/Fs	38.8/fs	63/fs	37/fs	37/fs	37/fs	32/fs	87/fs	/	/
192 kHz, Group Delay, s	5/Fs		63/fs	9.5/fs		9.5/fs	10/fs	43/fs	/	/
High-Pass Filter Phase Deviation @ 20 Hz, deg	10								/	/
High-Pass Filter Setting Time, s	10^5/Fs								/	/