

ECHO FILTER

SUBBOUND FILTER

MCU INTERFACE

REQ SCK DATA

M ABSOLUTE MAXIMUM RATINGS ($T_a = 25 \text{°C}$)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	Vcc	11	v
	VDD	7	V V
Power Dissipation	P₀	1.37	w
Operating Temperature Range	Topr	-20~+75	°C
Storage Temperature Range	Tstg	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS ($T_0 = 25$ °C, $V_{00} = 10$ V, $V_{DD} = 5$ V, $V_{1N} = 300$ mV $_{rms}/1$ k H z)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNI
• OVERALL						
Supply Voltage Range	Vcc		8	9	10	l v
	VDD		4.5	5	5.5	l v
Supply Current	lcc	No Signal	_	25	_	mA
	DD	No Signal	_	25	_	mA
Reference Voltage	Vref	No Signal	3.5	4.0	4.5	l v
Threshold voltage	Vthh	Digital input high level	0.7Vpp		VDD	ν
	Vthi	Digital input low level	0.0		0. 3VDD	<u>۱</u>
INPUT AUTO BALANCE		t.	1	1.	l -	,
Capture Range	CPR			±5	_	dE
Error Correction	CER		-	±4		dE
ADAPTIVE MATRIX		1	1	I	I	
Output Level Accuracy	⊿v.,	L, R, S' ch. out	-0.5	0	0.5	dE
relative to Cch.						
Matrix Rejection relative	MR	L, R, C, S' ch. out	25	40	—	dE
Headrrom	HR-AM	Vcc=9V at THD=1%	15	17	—	dl
Total Harmonic Distortion	THD-AM	L, R, C, S' ch. out at 4ch. mode		0.05	0. 2	9
		L, Rch. out at 2ch. mode		0.002	0. 05	9
Signal to Noise Ratio	SN-AM	Rg=0,wt:CCIR/ARM 4ch	75	80		dE
		L, Rch. out at 2ch. mode	93	100	_	dE
NOISE SEQUENCER		1	I	I	I	
Output Noise Level	VNO	1	-15.0	-12.5	-10.0	dE
Output Noise Level		L, R, S' ch. out	-0.5	0.0	0.5	d
Accuracy relative to Cch.						
MODIFIED B-TYPE NOISE REE	DUCTION	I	I		I	1
			t	1	r	
Voltage Gain	GV-NR	$V_{in} = 0 dBd, f = 100 Hz$		9.2	_	d
Decode Response 1	DEC1	Vin= OdBd, f=1. 0kHz	-1.6	-0.1	1.4	d
Decode Responce 2	DEC2	V _{1n} =-15dBd, f=1.4kHz	-3.0	-1.5	0.0	dE
Decode Responce 3	DEC3	V _{in} =-20dBd, f=1.4kHz	-4.9	-3.4	-1.9	dE
Decode Responce 4	DEC4	V_{in} =-40dBd, f=5.0kHz	-6.8	-5.3	-3.8	dE
Total Harmonic Distortion		Vin= OdBd, f=1kHz	-	0.07	0.3	9
Headroom	HR-NR	Vcc=9V, THD=1%	15	17	-	df
Signal to Noise Ratio	SN-NR	Rg=0, wt:CCIR/ARM	73	78	- 1	di

ELECTRICAL CHARACTERISTICS $(T_a = 25 ^{\circ}C)$,	$V_{00} = 1 \ 0 \ V, \ V_{DD} = 5 \ V,$	V _{IN} =300mV _{rmu} /1kHz)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
OTHER SURROUND		<u>, , , , , , , , , , , , , , , , , , , </u>				
Total Harmonic Distortion	THD-OS	V:"=OdBd, f=1kHz,	-	0. 05	0. 2	%
		L+R,L-R output				
Headroom	HR-OS	Vcc=9V, THD=1%,	15	17		dB
		L+R,L-R output				}
Signal to Noise Ratio	SNOS	Rg=0, wt:CCIR/ARM	85	90	—	dB
		L+R,L-R output				
C, S CHANNEL TRIMMER						
Full Scale	FS	Digital Input = -31d		-31	-37	dB
Trimmer Steps	. NL	Digital Input = -1,-2	4	1.0	1.4	dB
		-8, -	16dB	1		
DIGITAL TIME DELAY						1
Delay Time	Td		12.4	15.4	18.4	ms
			17.0	20. 0	23.0	ms
			25.6	28.6	31.6	ms
			38.0	41.0	44.0	ms
			46. 2	49. 2	52.2	ms
			137.5	147.5	157.5	ms
	_		186.6	196.6	206.6	ms
Total Gain	Gv		-3. 0	0.0	3.0	dB
Total Harmonic Distortion		Td=15.4ms	-	0.3	0.6	%
		Td=20. 0ms		0.3	0.6	%
		Td=28.6ms	-	0.5	1.0	%
		30kHz LPF Td=41.0ms		0.6	1.2	%
		Td=49. 2ms		0.7	1.4	% %
		Td=147.5m		1.5	3.0 4.0	%
		Td=196.6m	s	2. 0 1. 0	4.0	70 Vrms
Maximum Output Voltage	Vomax	30kHz LPF THD=10% Td=15.4ms		-92	-80	dB
Output Noise Voltage No	NO			-92	-80	dB
		Td=20.0ms Rg=620Ω Td=28.6ms		-92	-80	dB
				-92	-75	dB
		Vi=OmVrms Td=41.0ms		-90	-75	dB
		JIS-A Td=49.2ms		-90	-/5	dB
		Td=147.5m Td=196.6m		-82	-67	dB
DELAY VOLUME	I	10-190.00	5 <u> </u>	-11	-02	"
	Gv	Vol.=Max	0	3	6	d B
Total Gain	ATTmax	Delay OFF mode,Vol.=		-70	-60	dB
Maximum Attenuation		JIS-A				

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