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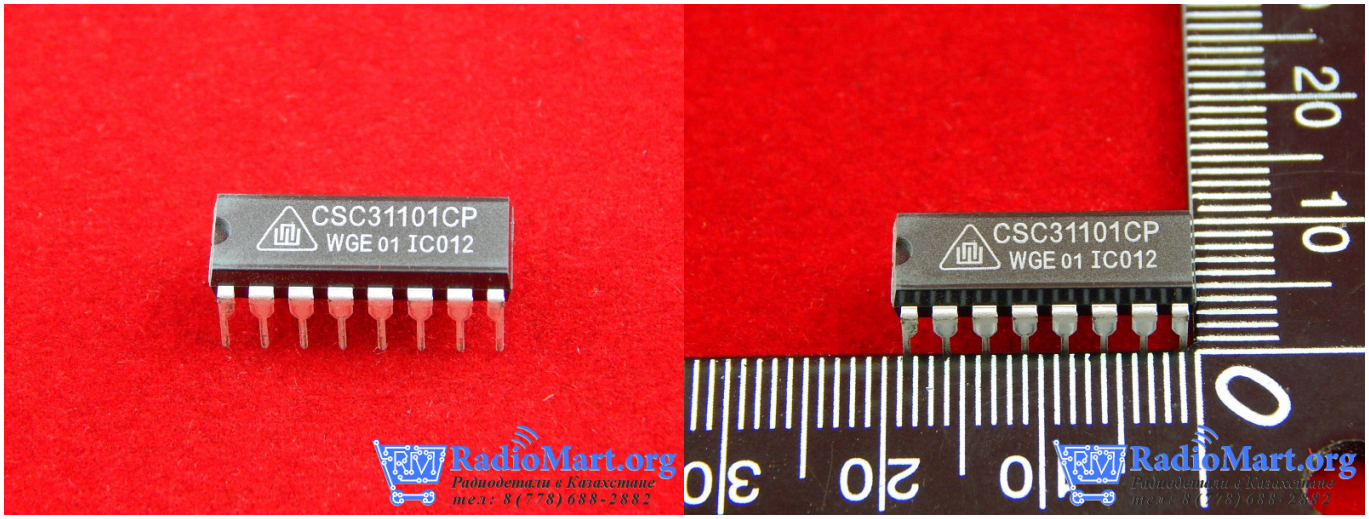
CSC31101CP Микросхема



CSC31101CP - Компандер (компрессор-экспандер) для микрофона (Аналог TA31101AP)

ELECTRICAL CHARACTERISTICS (Unless otherwise specified, V_{CC} = 3V, f = 1kHz, Ta = 25°C, 0dB = −20dBV)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage		V_{CC}	—	—	1.8	3.0	9.0	V
Quiescent Current		I_{CCQ}	1	V_{CC} = 3.0V	—	2.7	5.0	mA
Input Reference Level	TA31101P, TA31101F	V_{REF}	2	$V_{IN} = V_{OUT}$	−20.0	−18.5	−17.0	dBV
	TA31101AP, TA31101AF				−21.5	−20.0	−18.5	
Total Harmonic Distortion	COMP	THD_C	3	V_{IN} = 0dB	—	−55	−46	dB
	EXP	THD_E			—	−55	−46	
Output Noise Voltage	COMP	V_{NOC}	4	$V_{IN} = -\infty$, f = 15Hz~20kHz	—	0.5	—	mV_{rms}
	EXP	V_{NOE}			—	15	—	μV_{rms}
Cross Talk	C→E	CT (C→E)	5	V_{IN} = 0dBV	—	−95	—	dBV
	E→C	CT (E→C)	6	V_{IN} = −12dBV	—	−55	—	
Ripple Rejection Ratio	COMP	RR_C	7	$V_R = 100mV_{rms}$, f = 1kHz	—	−30	—	dB
	EXP	RR_E			—	−60	—	
Maximum Output Voltage (EXP)		V_{OM}	8	$R_L = 10k\Omega$	—	800	—	mV_{rms}
Output Deviation (Note 1)	COMP	V_{OC1}	9	V_{IN} = 20dB	−0.4	0.1	0.6	dB
		V_{OC2}		V_{IN} = −20dB	−0.5	0	0.5	
		V_{OC3}		V_{IN} = −40dB	−0.6	−0.1	0.4	
	EXP	V_{OE1}	9	V_{IN} = 6.5dB	−1.1	−0.1	0.9	
		V_{OE2}		V_{IN} = −10dB	−0.9	0.1	1.1	
		V_{OE3}		V_{IN} = −25dB	−1.0	0	1.0	
Frequency Characteristic	COMP	FR_C	10	V_{IN} = 0dB, f = 200~3500Hz and f = 1kHz are references.	—	±0.1	—	dB
	EXP	FR_E			—	±0.1	—	

Note 1 : Output deviation = $(V_{OUT} - V_{REF}) - V_{IN} \times \alpha\beta$

$\alpha\beta$: (COMP = 0.5, EXP = 2)