



3006B

3036B

CMOS IC

T-74-05-01

3V-Operated Electronic Volume Control

1374C

Use : Attenuation of signal

Features :

- C MOS process 3V typ. operation.
 - Up/down operation is performed with SW input.
 - 4-bit, 16-step counter. Step 6* is set with initial input (\overline{INIT}).
 - Center tap provided.
 - Maximum attenuation : -60dB or less
 - Attenuation curve : Pseudo curve A. Left/right simultaneous setting.
- (Note) * : Step 6 means mode 6.

TENTATIVE

Absolute Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V_{DDmax}	V_{SS} to 6	V
Applied Voltage	V_I	V_{SS} to V_{DD}	V
Allowable Power Dissipation	P_{dmax}	100	mW
Operating Temperature	T_{opg}	-30 to +75	°C
Storage Temperature	T_{stg}	-40 to +125	°C

Allowable Operating Conditions at Ta=25°C

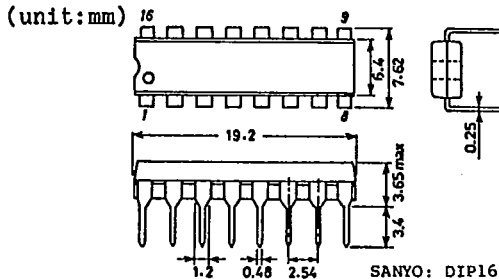
			unit
Supply Voltage	V_{DD}	2.1 to 4.5	V
Input "H" Level Voltage	V_{IH}	$0.7V_{DD}$ to V_{DD}	V
Input "L" Level Voltage	V_{IL}	0 to $0.3V_{DD}$	V

Electrical Characteristics at Ta=25°C

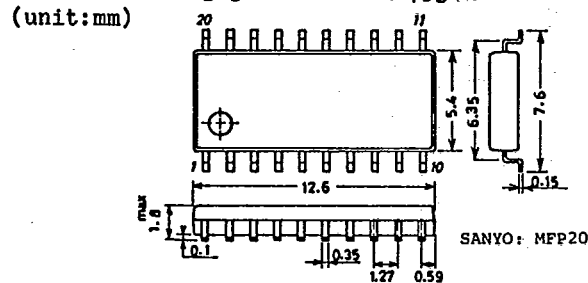
Signal Distortion	THD1	$V_{DD}=3V, R_L=50k\Omega, f=1kHz$	0.5% max
	THD2	$V_{DD}=1.8V, R_L=50k\Omega, f=1kHz$	1% typ
Output at Attenuation Mode	X_{OUT}	0dBm input, 1kHz, 51k Ω load	-60dB max



Case Outline 3006B-D16IC LC7533



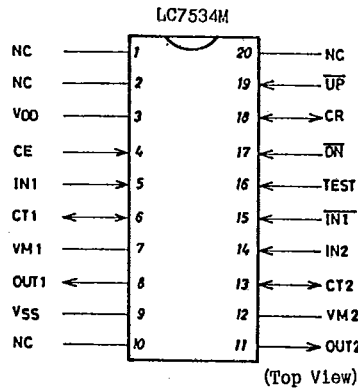
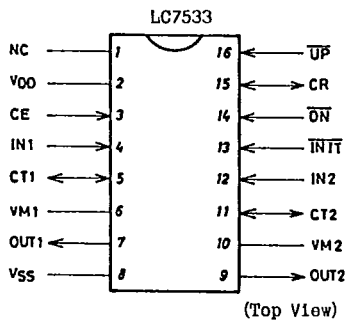
Case Outline 3036B-M20IC LC7534M



LC7533,7534M

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Pin Assignment

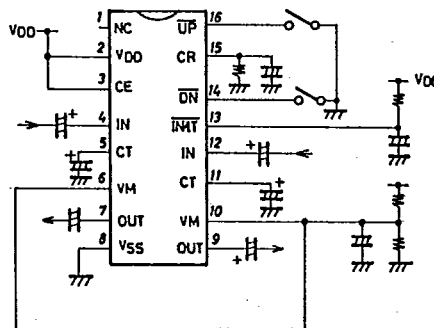
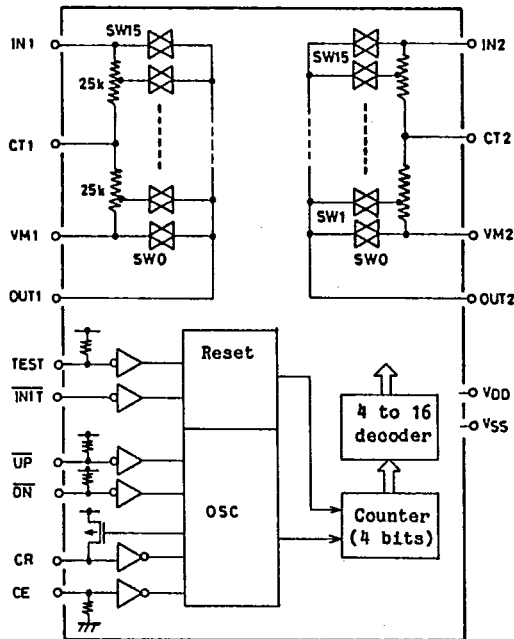


- Note 1. No bonding exists on the inside of NC pin. It is recommended that the outside should be shorted to V_{DD} , V_{SS} , etc. on the printed circuit board.
- Note 2. The MFP package only is provided with the TEST pin. It should be connected to V_{SS} .
 TEST=0 causes the power-on reset function to be performed.
 (The power-on reset function means that mode 6 is entered at the time of application of power.)

Equivalent Circuit Block Diagram

Sample Application Circuit

Common to LC7533/LC7534M (LC7533 DIP-16)



For V_M , $1/2V_{DD}$ bias is recommended.

Note 1. The TEST pin is bonded only when the MFP20 is used.

T-90-20

AUDIO-USE MOS IC CASE OUTLINES

- All of Sanyo audio-use MOS IC case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

