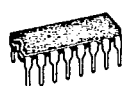
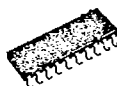


**LC7533,
7534M**



3006B



3036B

T-74-05-01

CMOS IC

3V-Operated Electronic Volume Control

E1374C

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 ($\overline{\text{INIT}}$).
 - Center tap provided.
 - Maximum attenuation : -60dB or less
 - Attenuation curve : Pseudo curve A. Left/right simultaneous setting.
- (Note) *: Step 6 means mode 6.

Absolute Maximum Ratings at Ta=25°C

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	Topg	-30 to +75	°C
Storage Temperature	Tstg	-40 to +125	°C

Allowable Operating Conditions at Ta=25°C

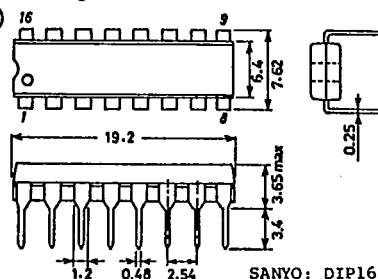
Supply Voltage	V_{DD}	2.1 to 4.5	V
Input "H" Level Voltage	V_{IH}	$0.7V_{DD}$ to V_{DD}	V
Input "L" Level Voltage	V_{IL}	0 to $0.3V_{DD}$	V

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

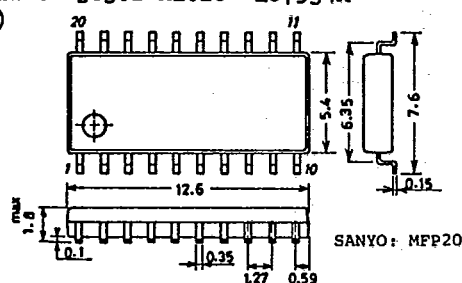
Case Outline 3006B-D16IC LC7533

(unit:mm)



Case Outline 3036B-M20IC LC7534M

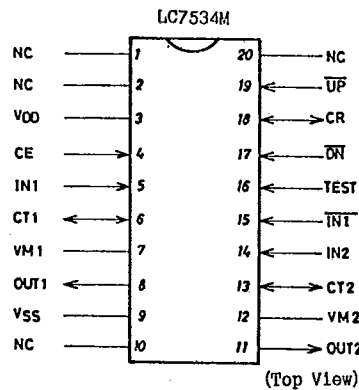
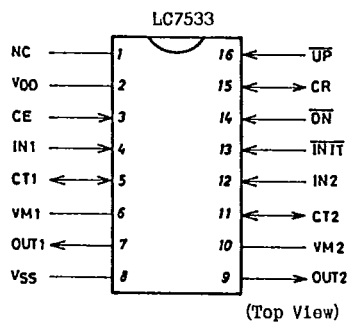
(unit:mm)



LC7533,7534M

T-74-05-01

Pin Assignment

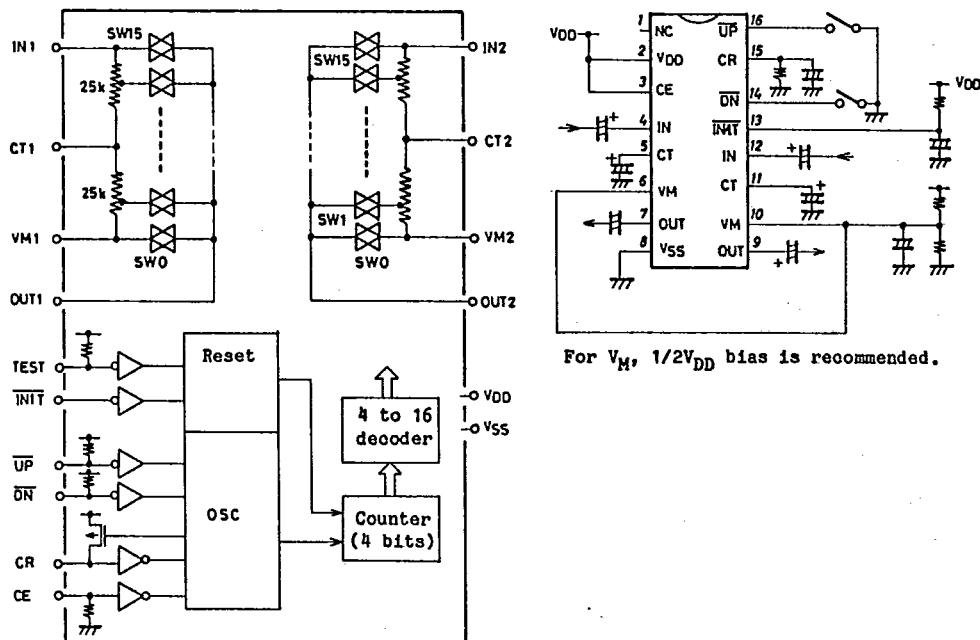


- Note 1. No bonding exists on the inside of NC pin. It is recommended that the outside should be shorted to V_{DD} , V_{SS} , etc. on the printed circuit board.
- Note 2. The MFP package only is provided with the TEST pin. It should be connected to V_{SS} .
 TEST=0 causes the power-on reset function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



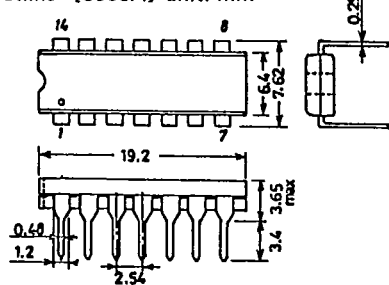
Note 1. The TEST pin is bonded only when the MFP20 is used.

T-90-20

AUDIO-USE MOS IC CASE OUTLINES

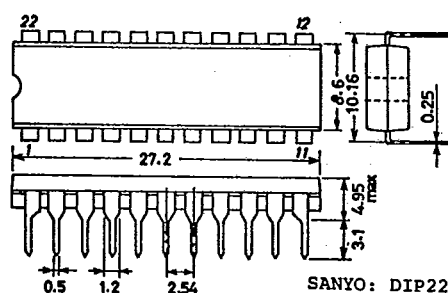
- All of Sanyo audio-use MOS IC case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

Case Outline—[3003A] unit: mm



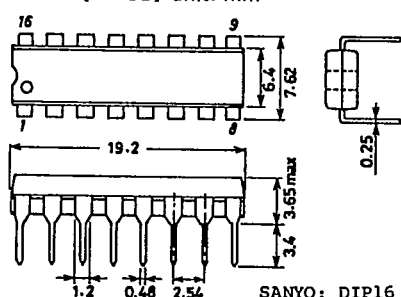
SANYO: DIP14

Case Outline—[3010A] unit: mm



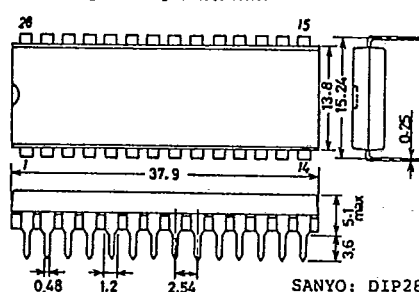
SANYO: DIP22

Case Outline—[3006B] unit: mm



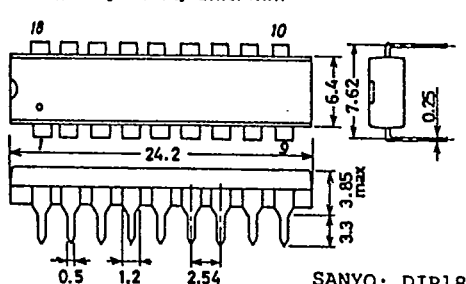
SANYO: DIP16

Case Outline—[3012A] unit: mm



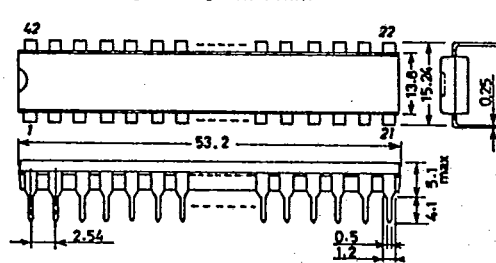
SANYO: DIP28

Case Outline—[3007A] unit: mm



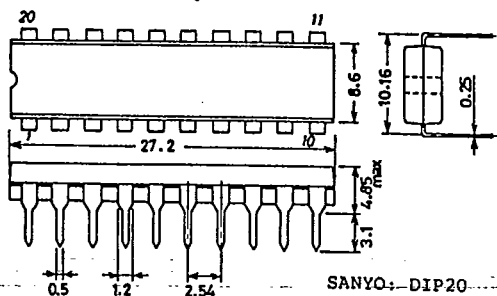
SANYO: DIP18

Case Outline—[3014A] unit: mm



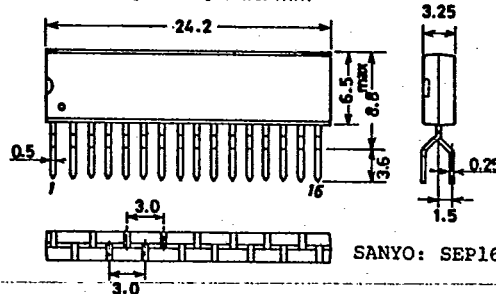
SANYO: DIP42

Case Outline—[3008A] unit: mm



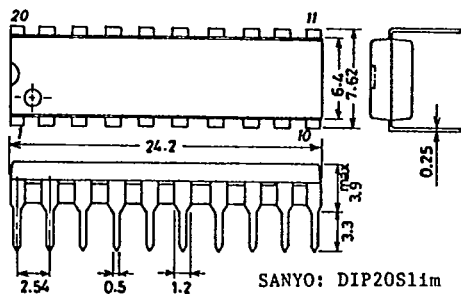
SANYO: DIP20

Case Outline—[3020A] unit: mm

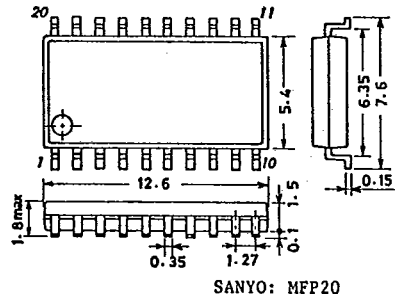


SANYO: SEP16

Case Outline—[3021B] unit: mm

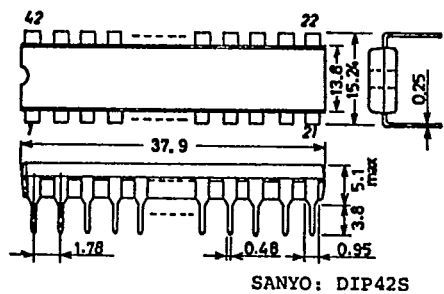


Case Outline—[3036B] unit: mm

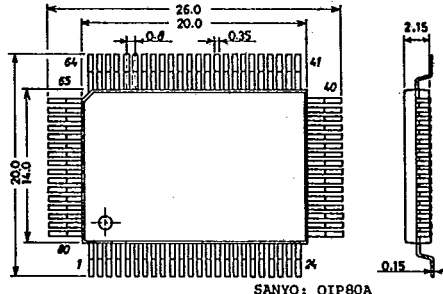


T-90-20

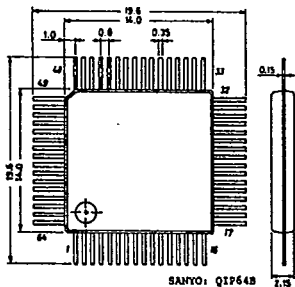
Case Outline—[3025B] unit: mm



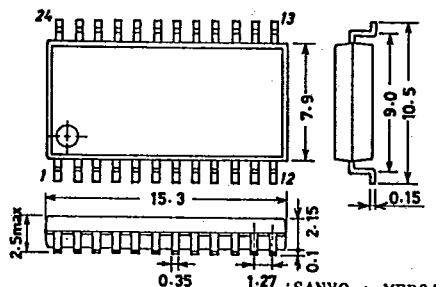
Case Outline—[3044B] unit: mm



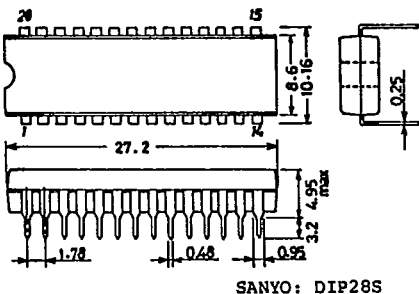
Case Outline—[3026B] unit: mm



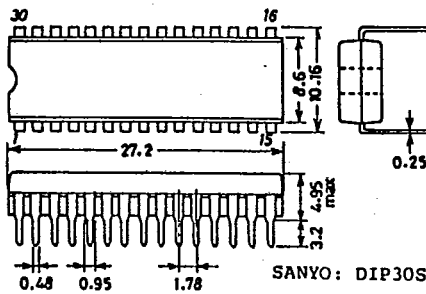
Case Outline—[3045B] unit: mm



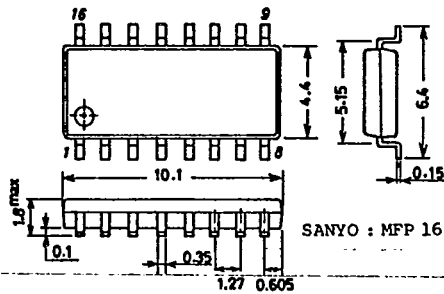
Case Outline—[3029A] unit: mm



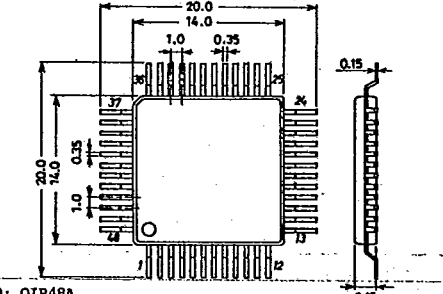
Case Outline—[3047A] unit: mm



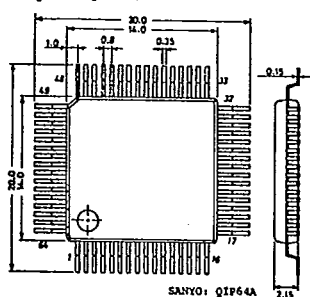
Case Outline—[3035A] unit: mm



Case Outline—[3052A] unit: mm



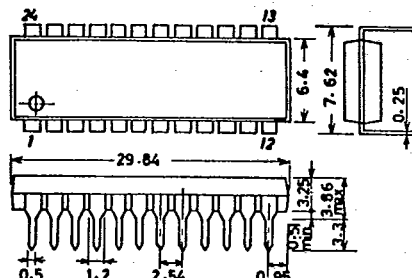
Case Outline—[3057] unit: mm



SANYO: OIP64A

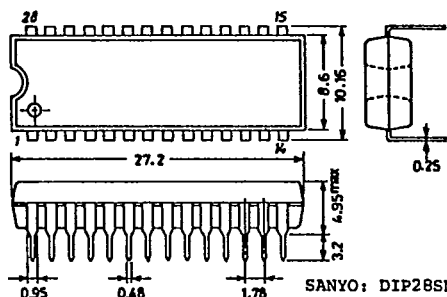
Case Outline—[3084] unit: mm

T-90-20



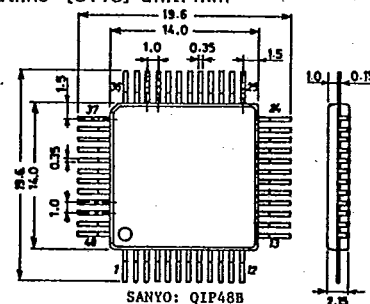
SANYO: DIP-24S11m

Case Outline—[3063] unit: mm



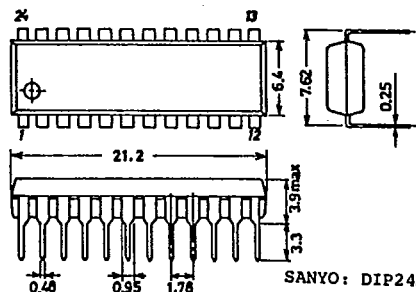
SANYO: DIP28SN

Case Outline-- [3118] unit: mm



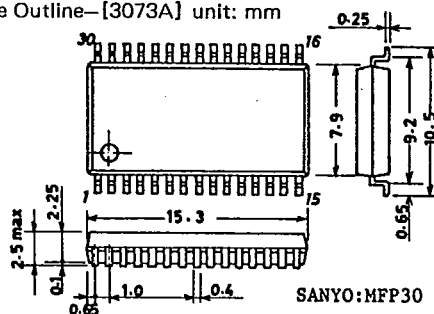
SANYO: QIP48B

Case Outline—[3067] unit: mm



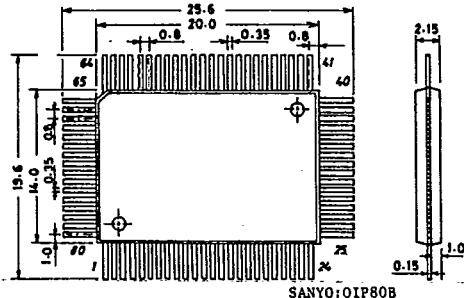
SANYO: DIP24S

Case Outline—[3073A] unit: mm



SANYO:MFP30

Case Outline--[3074] unit: mm



SANYO:QIP80B