T-74-05-01

LC7533, 7534M

3006B 3036B

CMOS IC

3V-Operated Electronic Volume Control

E1374C

Use : Attenuation of signal

TENTATIVE

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.

Absolute Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V_{DD}max	V_{SS} to 6	V
Applied Voltage	V_I	V_{SS} to V_{DD}	V
Allowable Power Dissipation	$P_d$max	100	mW
Operating Temperature	Topg	-30 to +75	°C
Storage Temperature	Tstg	-40 to +125	°C

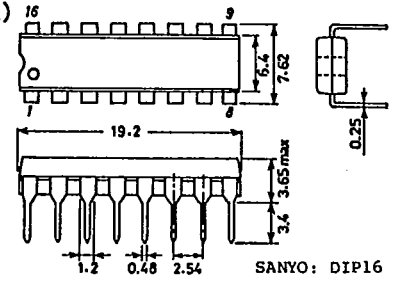
Allowable Operating Conditions at Ta=25°c

			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

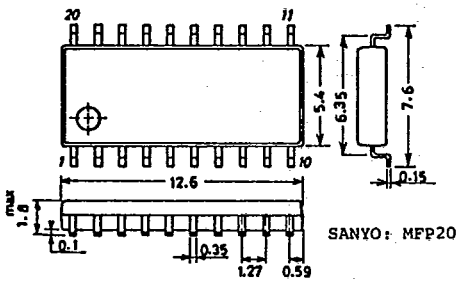
Signal Distortion	THD1	V_{DD}=3V, R_L=50kohms, f=1kHz	0.5% max
	THD2	V_{DD}=1.8V, R_L=50kohms, f=1kHz	1% typ
Output at Attenuation Mode	X_{OUT}	0dBm input, 1kHz, 51kohm load	-60dB max

Case Outline 3006B-D16IC LC7533
(unit:mm)



SANYO: DIP16

Case Outline 3036B-M20IC LC7534M
(unit:mm)



SANYO: MFP20

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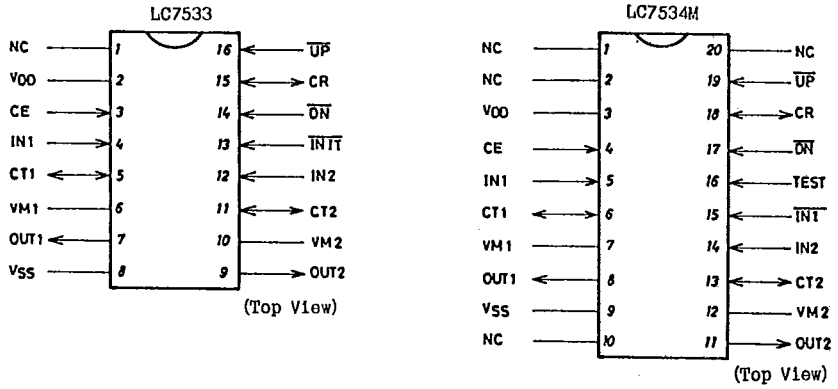
Pin Assignment

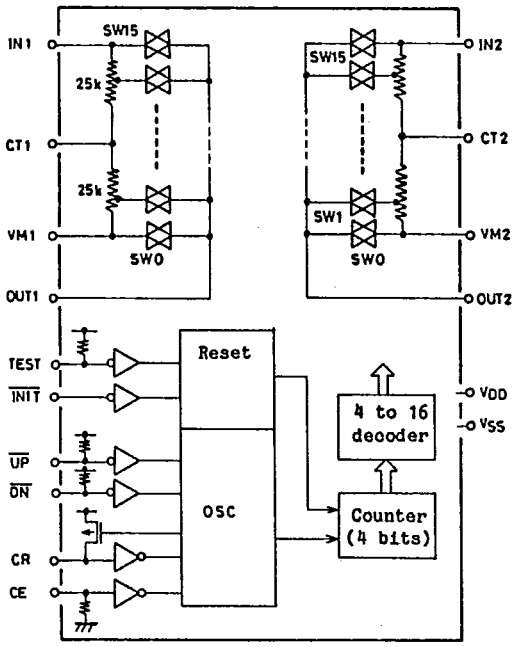


Note 1. No bonding exists on the inside of NC pin. It is recommended that the outside should be shorted to V_{DD},V_{SS},etc. on the printed circuit board.

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.)

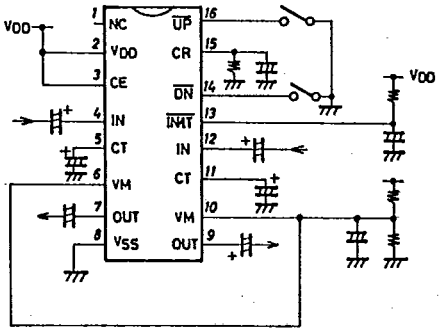
Equivalent Circuit Block Diagram

Common to LC7533/LC7534M



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

Sample Application Circuit (LC7533 DIP-16)

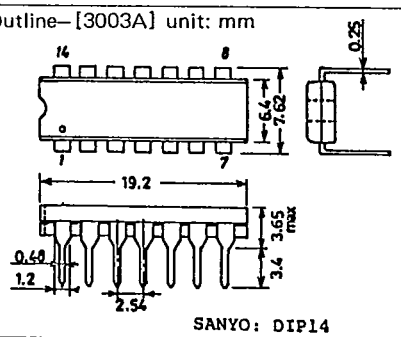


For V_M, $1/2V_{DD}$ bias is recommended.

AUDIO-USE MOS IC CASE OUTLINES

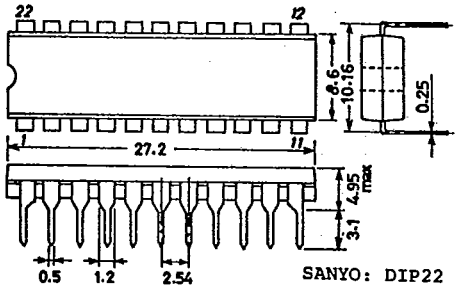
- All of Sanyo audio-use MOS IC case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

Case Outline—[3003A] unit: mm



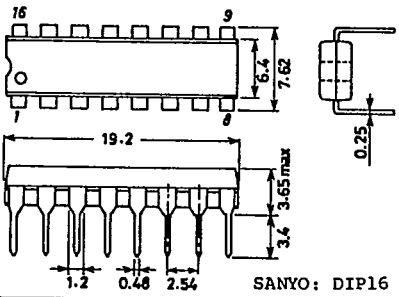
SANYO: DIP14

Case Outline—[3010A] unit: mm



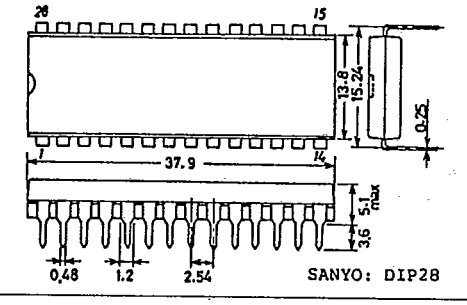
SANYO: DIP22

Case Outline—[3006B] unit: mm



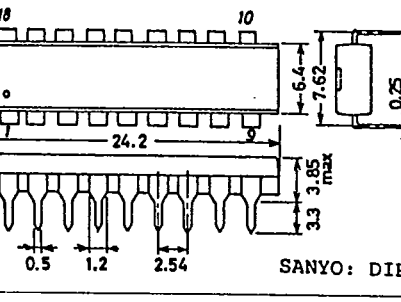
SANYO: DIP16

Case Outline—[3012A] unit: mm



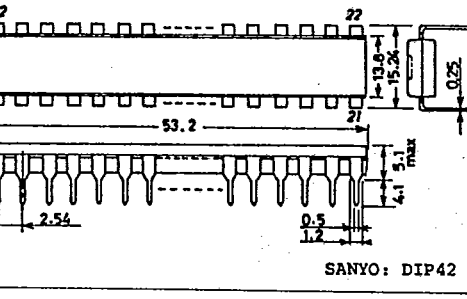
SANYO: DIP28

Case Outline—[3007A] unit: mm



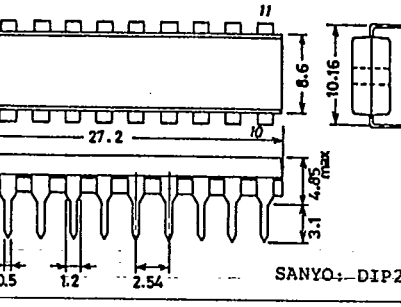
SANYO: DIP18

Case Outline—[3014A] unit: mm



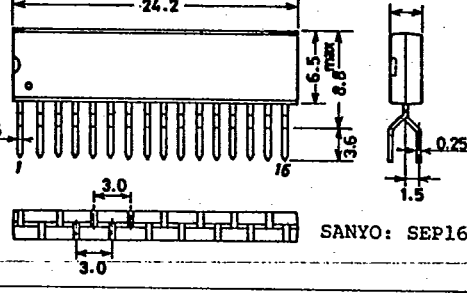
SANYO: DIP42

Case Outline—[3008A] unit: mm



SANYO: DIP20

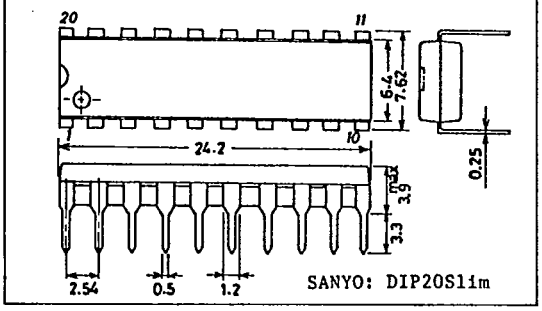
Case Outline—[3020A] unit: mm



SANYO: SEP16

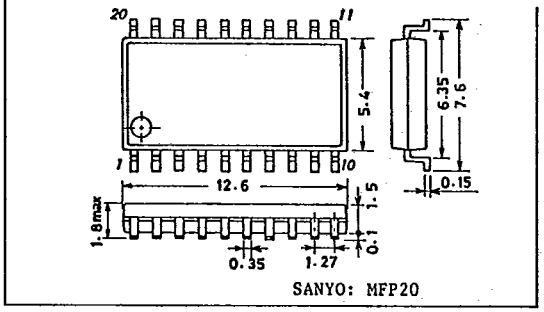
T-90-20

Case Outline—[3021B] unit: mm



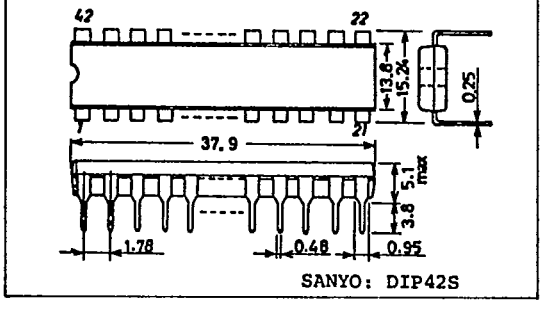
SANYO: DIP20S1im

Case Outline—[3036B] unit: mm



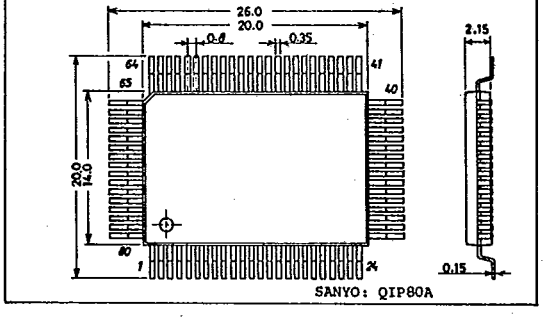
SANYO: MFP20

Case Outline—[3025B] unit: mm



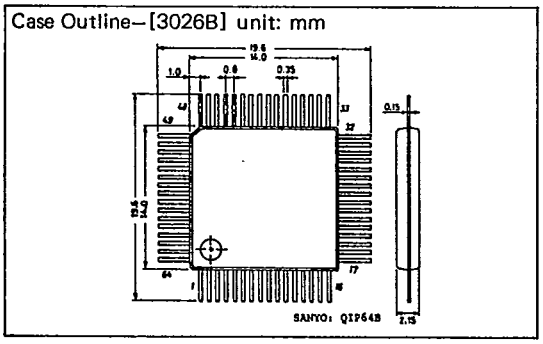
SANYO: DIP42S

Case Outline—[3044B] unit: mm



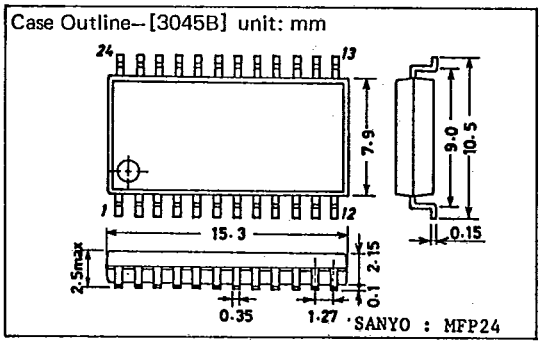
SANYO: QIP80A

Case Outline—[3026B] unit: mm



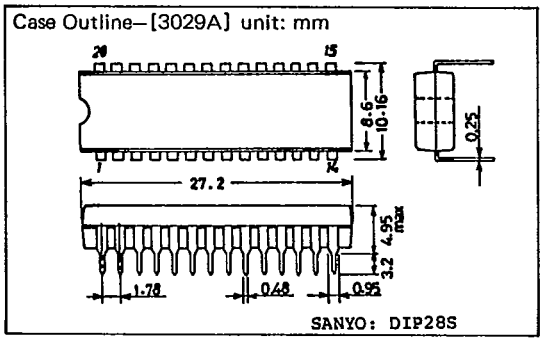
SANYO: QIP64B

Case Outline—[3045B] unit: mm



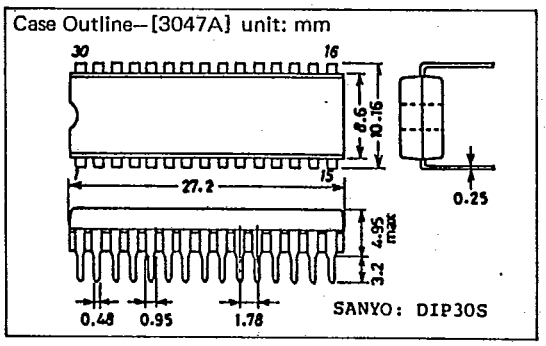
SANYO : MFP24

Case Outline—[3029A] unit: mm



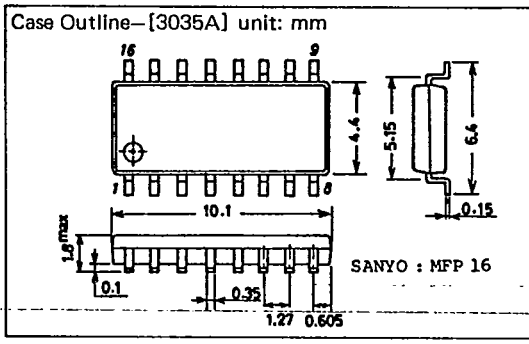
SANYO: DIP28S

Case Outline—[3047A] unit: mm



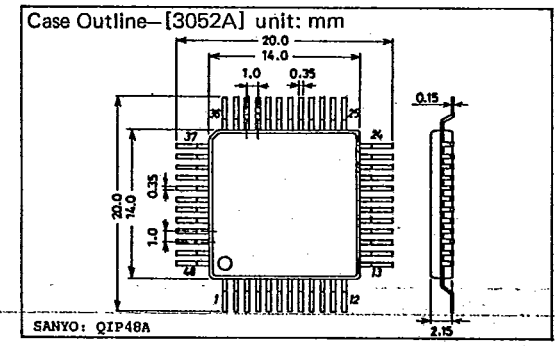
SANYO: DIP30S

Case Outline—[3035A] unit: mm



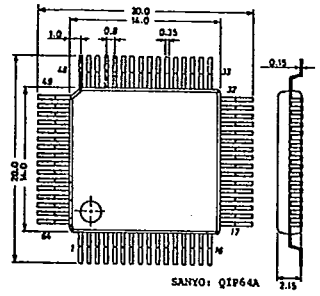
SANYO : MFP 16

Case Outline—[3052A] unit: mm

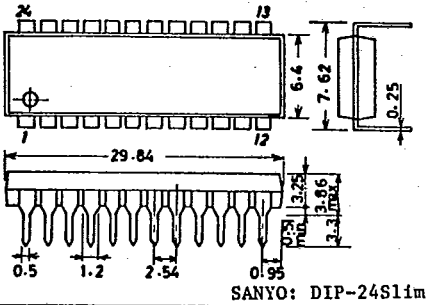


SANYO: QIP48A

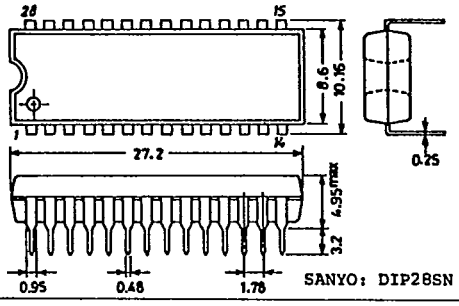
Case Outline—[3057] unit: mm



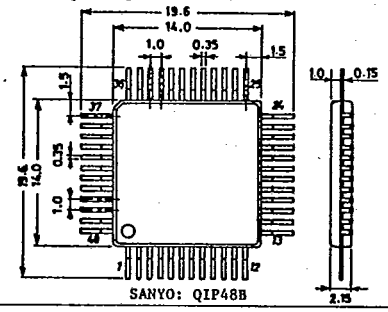
Case Outline—[3084] unit: mm



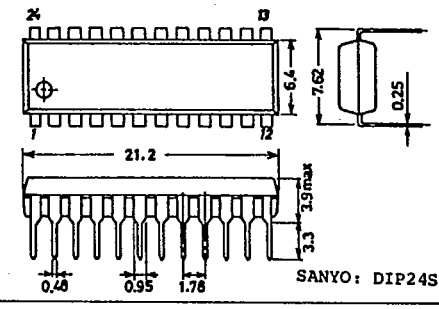
Case Outline—[3063] unit: mm



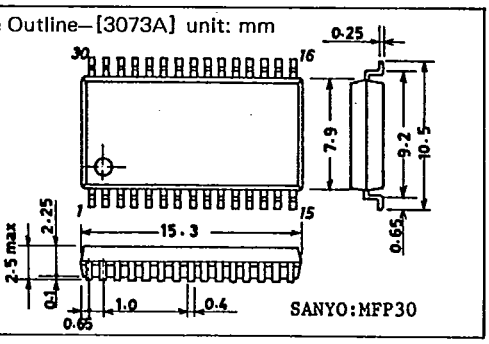
Case Outline—[3118] unit: mm



Case Outline—[3067] unit: mm



Case Outline—[3073A] unit: mm



Case Outline—[3074] unit: mm