

## Audio Power Amplifiers (Continued)

| Type No.                       | Use                                                                | Circuit Description                                                                                                                       | Supply Voltage (V) | Electrical Characteristics                  |           |                |                                                   | Package Outline                            |
|--------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------|-----------|----------------|---------------------------------------------------|--------------------------------------------|
| $\mu$ PC1181H<br>$\mu$ PC1182H | Car stereo set<br>Car radio receiver<br>( $P_O = 9.2W @ 2\Omega$ ) | <ul style="list-style-type: none"> <li>Differential input</li> <li>3-stage amplifier</li> <li>Quasi complementary output stage</li> </ul> | 9.5~18             | (Ta = 25°C, VCC = 13.2V, f = 1kHz, RL = 4Ω) |           |                |                                                   | 7-pin<br>SIP<br>Ⓒ                          |
|                                |                                                                    |                                                                                                                                           |                    | ICC                                         | ~40 ~     | (mA)           | Vi=0                                              |                                            |
|                                |                                                                    |                                                                                                                                           |                    | PO                                          | 5.0~5.8~  | (W)            | T.H.D.=10%                                        |                                            |
|                                |                                                                    |                                                                                                                                           |                    | PO                                          | ~9.2~     | (W)            | T.H.D.=10%, RL=2Ω                                 |                                            |
|                                |                                                                    |                                                                                                                                           |                    | T.H.D.                                      | ~0.3~     | (%)            | PO=0.5W                                           |                                            |
|                                |                                                                    |                                                                                                                                           |                    | T.H.D.                                      | ~0.4~     | (%)            | PO=1W, RL=2Ω                                      |                                            |
|                                |                                                                    |                                                                                                                                           |                    | POM                                         | ~9.5~     | (W)            |                                                   |                                            |
|                                |                                                                    |                                                                                                                                           |                    | Av                                          | ~55 ~     | (dB)           | PO=0.5W                                           |                                            |
|                                |                                                                    |                                                                                                                                           |                    | NL                                          | ~0.9~     | (mVr.m.s.)     | RG=0Ω                                             |                                            |
| $\mu$ PC2002H/V                | Car stereo set<br>Car radio receiver<br>( $P_O = 9.0W @ 2\Omega$ ) | <ul style="list-style-type: none"> <li>Differential input</li> <li>3-stage amplifier</li> <li>Quasi complementary output stage</li> </ul> | 8~18               | (Ta = 25°C, f = 1kHz)                       |           |                |                                                   | 5-pin<br>SIP<br>V type<br>M<br>H type<br>Ⓒ |
|                                |                                                                    |                                                                                                                                           |                    | VCC = 14.4V                                 |           | 13.2V          |                                                   |                                            |
|                                |                                                                    |                                                                                                                                           |                    | ICC                                         | ~60 ~     | 60 (mA)        | Vi=0                                              |                                            |
|                                |                                                                    |                                                                                                                                           |                    | PO                                          | ~5.4 ~    | 4.5 (W)        | T.H.D.=10%,<br>RL=4Ω                              |                                            |
|                                |                                                                    |                                                                                                                                           |                    | PO                                          | ~9.0 ~    | 7.5 (W)        | T.H.D.=10%,<br>PL=2Ω                              |                                            |
|                                |                                                                    |                                                                                                                                           |                    | T.H.D.                                      | ~0.05 ~   | 0.05 (%)       | PO=0.5W, RL=4Ω                                    |                                            |
|                                |                                                                    |                                                                                                                                           |                    | T.H.D.                                      | ~0.06 ~   | 0.06 (%)       | PO=1W, RL=2Ω                                      |                                            |
|                                |                                                                    |                                                                                                                                           |                    | Avo                                         | ~80 ~     | 78.5 (dB)      | RL=4Ω                                             |                                            |
|                                |                                                                    |                                                                                                                                           |                    | Av                                          | 39.5~40 ~ | 40.5 40 (dB)   | RL=4Ω, PO=0.5W                                    |                                            |
|                                |                                                                    |                                                                                                                                           |                    | NL                                          | ~0.4 ~    | 0.4 (mVr.m.s.) | RG=0                                              |                                            |
|                                |                                                                    |                                                                                                                                           |                    | Ri                                          | 70~150 ~  | 150 (kΩ)       |                                                   |                                            |
|                                |                                                                    |                                                                                                                                           |                    | SVR                                         | ~-39 ~    | -39 (dB)       | RL=4Ω, RL=10kΩ,<br>fripple=100Hz,<br>Vripple=0.5V |                                            |

## Channel Selector

| Type No.      | Use                | Circuit Description                                                                                                                                                                                      | Supply Voltage (V) | Electrical Characteristics                          |         |          |                                              | Package Outline    |
|---------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|---------|----------|----------------------------------------------|--------------------|
| $\mu$ PC1009C | 4-Channel selector | <ul style="list-style-type: none"> <li>Potentiometer switch</li> <li>Channel indicator circuit</li> <li>Channel hold circuit</li> <li>Input signal amplifier</li> <li>Initial setting circuit</li> </ul> | 9~28               | (Ta = 25°C, V18~20, VB = 24V, RB = 3.9kΩ, V1 = 24V) |         |          |                                              | 20-pin<br>DIP<br>K |
|               |                    |                                                                                                                                                                                                          |                    | $\Delta V_{11,13}$                                  | 1.0~    | ~1.7 (V) | Remote control input voltage                 |                    |
|               |                    |                                                                                                                                                                                                          |                    | VC(ON)                                              | ~0.06 ~ | 0.1 (V)  | Channel selector terminal saturation voltage |                    |
|               |                    |                                                                                                                                                                                                          |                    | Ia                                                  | ~100    | (nA)     | Sensor input current                         |                    |
|               |                    |                                                                                                                                                                                                          |                    | Vb(sat)                                             | ~0.9 ~  | 2.0 (V)  | Indicator terminal saturation voltage        |                    |