



Monolithic ICs

T-75-01

ROHM

T-77-13

■ ICs for OA Applications

● Phones

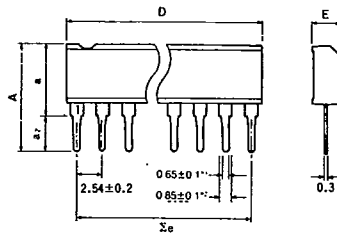
★ Under Development

| Type | Function | Package | | Features | Reference Catalog |
|-------------------------------|---|---------------|-------------|---|-------------------|
| | | Configuration | No. of pins | | |
| BU8302A | Tone/pulse dialer | DIP | 24 | Contains both tone and pulse dialers on a single chip to enable compact telephone set design, up to 17 digits of redialing capacity. Redial memory can be backed up from the line. Pause input capability. For U.S., Canada, and other markets. | — |
| BU8304/BU8304F | Tone/pulse dialer | DIP/MF | 24/28 | Contains both tone and pulse dialers on a single chip to enable compact telephone set design; up to 17 digits of redial capability; redial memory can be backed up from the line; pause input capability; domestic model | No.3121 |
| BU8307B5/BU8307BF | Tone/pulse dialer | DIPS/MF | 22/24 | Compatible with standards in Japan, U.S.A., Canada, U.K., Korea, Taiwan, and Australia | No.3094 |
| New ☆ BU8308K/☆BU8308S | Pulse/Tone dialer CPU interface built-in | QFP/ DIPS | 32 | 4×4; internal key encoder allows CPU control by a serial signal Compatible with standards in Japan, U.S.A. Canada, U.K, Korea, Taiwan, and Australia | — |
| BU8320A/BU8320AF | Tone/pulse repertory dialer | DIP/MF | 28 | Break rate 66.7% for Japan | No.3121 |
| BU8321/BU8321F | Tone/pulse repertory dialer | DIP/MF | 28 | Memory protecting function for Japan, U.S.A. | |
| BU8322/BU8322F | Tone/pulse repertory dialer | DIP/MF | 28 | Break rate 60% for U.S.A. | |
| BU8323/BU8323F | Tone/pulse repertory dialer | DIP/MF | 28 | Off-hook memory storage for Japan, U.S.A. | |
| New BU8874 | DTMF receiver | DIP | 8 | Serial data outputs implement three serial interface lines to the host processor; 8-pin DIP; on-chip AGC achieves 45-dB dynamic range. | — |
| BA6562/BA6562F | Speech network | DIP/MF | 16/18 | Built-in amplifier for transmitter and receiver and voltage regulator. Detects line current and controls gains of amplifier for transmitter and receiver. | — |
| BA6566/BA6566F | Speech network | DIP/MF | 18 | Operating current range: 5 to 125mA. | No.3121 |
| BA6566FP | Speech network | MFP | 24 | Suitable for surface mounting—No need for external transistors for power consumption. | No.3121 |
| BA6567K | Speech network | QFP | 44 | On-hook receiver capability. Operating current range: 5 to 135mA. | No.3121 |
| BA6569FP/BA6569S | Speech network | MFP/ DIPS | 24/22 | Ideal for cordless telephones; Independent receiver preamp and power amp. | No. 3097 |
| ☆ BA8211N | Speech network | SIP | 10 | Few external parts, due to excellent branch characteristics. Receiver may be either piezoelectric or dynamic. | No.3095 |
| BA8215/BA8215L | Speech network | DIP/LF | 14/16 | Few external parts, due to excellent branch characteristics. Receiver may be either piezoelectric or dynamic. | No.3096 |
| New ☆ BA8216 | Speech network | DIP | 14 | Excellent branch characteristic; few external parts required; receiver selectable from piezoelectric and dynamic types; supply voltage 4.15V type. (at line current = 20mA); reception noise further reduced from the BA8215. | — |
| BA6571A/BA6571AF | Speakerphone | DIP/MF | 28 | Implements major speakerphone circuitry on a single chip. | No.3121 |
| BA6564A/BA6564AF | Tone ringer | DIP/MF | 8 | Internal power supply with hysteresis, double ringing tone capability (650Hz or 810Hz), low power consumption (3.3mA typ. unloaded). | — |
| BA6565A/BA6565AF | Tone ringer | DIP/MF | 8 | Internal power supply with hysteresis, adjustable ring start current, double ringing tone capability (650Hz or 810Hz), low power consumption (3.3mA typ. unloaded). | — |
| BA8205/BA8205F | Tone ringer | DIP/MF | 8 | High output sound pressure. Absolute maximum rating 40V | No.3121 |
| BA1604/BA1604F | Tone decoder | DIP/MF | 8 | Uses PLL., Built-in output power transistor. | No.3121 |
| BA1610/BA1610F | FSK linear modem | DIP/MF | 20 | For transmitting control data on pushbutton telephones. Wide operating voltage range (5.5~14V). | No.3121 |
| BU2902F | Telephone hold tone generator | MF | 18 | Built-in hold tone control logic; contains a single unison melody; Daydream, Day River, 3V power supply | — |
| BU2906F | Telephone hold tone generator | MF | 18 | Built-in hold tone control logic; contains a single unison melody; My Heart is a Violin 3V power supply | No.3121 |
| BU2907F | Telephone hold tone generator | MF | 18 | Built-in hold tone control logic; contains a single unison melody; There's No Place Like Home, Green Sleeves 3V power supply | No.3121 |
| BU2908F | Telephone hold tone generator | MF | 18 | Built-in hold tone control logic; contains a single unison melody; (Hey Jude) (Yesterday) 3V power supply | No.3121 |
| BU2912 | Hold tone generator for answering machines | DIP | 18 | A single chord melody; 6 kinds of chime tones; bell sound; 5V power supply; level input | — |



Dimensions (Unless otherwise specified, dimensions are shown in Typ. values.)

SIP

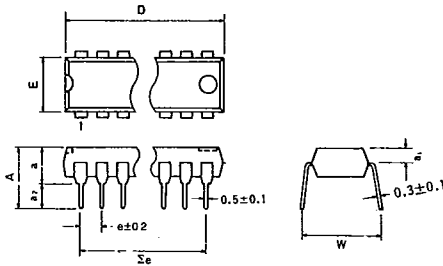


• SIP Dimensions (Unit: mm)

| Package | A | a | a ₂ | D | Σe | E |
|---------|------|-----|----------------|------|-------|-----|
| SIP 5 | 9.7 | 6.2 | 3.5 | 12.0 | 10.16 | 2.4 |
| SIP 7 | 9.7 | 6.2 | 3.5 | 17.0 | 15.24 | 2.8 |
| SIP 8 | 10.5 | 7.0 | 3.5 | 19.5 | 17.78 | 2.8 |
| SIP 9 | 10.5 | 7.0 | 3.5 | 22.0 | 20.32 | 2.8 |
| SIP 10 | 10.5 | 7.0 | 3.5 | 25.2 | 22.86 | 2.8 |

*1 SIP 10pin: 0.6 *2 SIP 10pin: 0.8

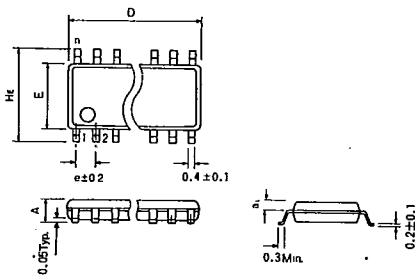
DIP/DIPS



• DIP Dimensions (Unit: mm)

| Package | A | a | a ₁ | a ₂ | D | e | Σe | E | W |
|---------|------|------|----------------|----------------|------|-------|--------|------|------|
| DIP 8 | 6.8 | 3.6 | 1.1 | 3.2 | 9.3 | 2.54 | 7.62 | 6.5 | 8.8 |
| DIP 14 | 6.94 | 3.65 | 1.65 | 3.29 | 19.4 | 2.54 | 15.24 | 6.5 | 8.8 |
| DIP 16 | 6.94 | 3.65 | 1.65 | 3.29 | 19.4 | 2.54 | 17.78 | 6.5 | 8.8 |
| DIP 18 | 6.94 | 3.65 | 1.65 | 3.29 | 22.9 | 2.54 | 20.32 | 6.5 | 8.8 |
| DIP 20 | 7.09 | 3.65 | 1.65 | 3.44 | 26.3 | 2.54 | 22.86 | 6.5 | 8.8 |
| DIP 22 | 7.09 | 3.65 | 1.65 | 3.44 | 26.3 | 2.54 | 25.40 | 6.5 | 8.8 |
| DIP 24 | 7.51 | 4.22 | 1.8 | 3.29 | 32.0 | 2.54 | 27.94 | 13.8 | 16.5 |
| DIP 28 | 7.51 | 4.22 | 1.8 | 3.29 | 37.1 | 2.54 | 33.02 | 13.8 | 16.5 |
| DIP 40 | 7.7 | 4.5 | 1.8 | 3.2 | 52.3 | 2.54 | 48.26 | 13.8 | 16.5 |
| DIPS 18 | 7.35 | 3.65 | 1.65 | 3.7 | 19.4 | 1.778 | 14.224 | 6.5 | 8.8 |
| DIPS 22 | 7.35 | 3.65 | 1.65 | 3.7 | 19.4 | 1.778 | 17.78 | 6.5 | 8.8 |
| DIPS 24 | 7.4 | 4.0 | 1.7 | 3.4 | 22.8 | 1.778 | 19.558 | 6.5 | 8.8 |
| DIPS 30 | 7.9 | 4.7 | 1.7 | 3.2 | 28.0 | 1.778 | 24.892 | 8.4 | 11.4 |
| DIPS 32 | 7.9 | 4.7 | 1.7 | 3.2 | 28.0 | 1.778 | 26.67 | 8.4 | 11.4 |
| DIPS 42 | 7.7 | 4.5 | 1.8 | 3.2 | 37.1 | 1.778 | 35.56 | 13.8 | 16.5 |

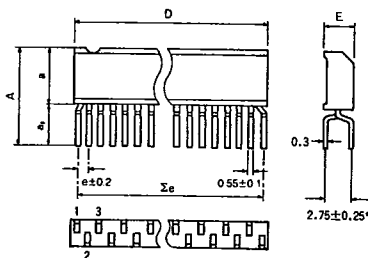
MF/MFS/MFP



• MF Dimensions (Unit: mm)

| Package | A | a ₁ | D | H _E | e | E |
|---------|-----|----------------|------|----------------|------|-----|
| MF 8 | 1.5 | 0.65 | 5.0 | 6.2 | 1.27 | 4.4 |
| MF 14 | 1.5 | 0.65 | 8.7 | 6.2 | 1.27 | 4.4 |
| MF 16 | 1.5 | 0.65 | 10.0 | 6.2 | 1.27 | 4.4 |
| MF 18 | 1.8 | 0.8 | 11.2 | 7.8 | 1.27 | 5.4 |
| MF 20 | 1.8 | 0.8 | 12.5 | 7.8 | 1.27 | 5.4 |
| MF 22 | 1.8 | 0.8 | 13.7 | 7.8 | 1.27 | 5.4 |
| MF 24 | 1.8 | 0.8 | 15.0 | 7.8 | 1.27 | 5.4 |
| MF 28 | 2.2 | 1.0 | 18.5 | 9.9 | 1.27 | 7.5 |
| MFS 16 | 1.5 | 0.65 | 6.6 | 6.2 | 0.8 | 4.4 |
| MFS 20 | 1.8 | 0.8 | 8.7 | 7.8 | 0.8 | 5.4 |
| MFS 24 | 1.8 | 0.8 | 10.0 | 7.8 | 0.8 | 5.4 |
| MFP 24 | 1.9 | 0.8 | 13.7 | 7.8 | 0.8 | 5.4 |
| MFP 28 | 2.2 | 0.95 | 18.5 | 9.9 | 0.8 | 7.5 |

LF/LFS



• LF Dimensions (Unit: mm)

| Package | A | a | a ₂ | D | Σe | e | E |
|---------|------|-----|----------------|------|--------|-------|-----|
| LF 9 | 9.8 | 5.0 | 4.8 | 12.0 | 10.16 | 1.27 | 2.4 |
| LF 12 | 9.8 | 5.0 | 4.8 | 17.0 | 13.97 | 1.27 | 2.8 |
| LF 16 | 9.9 | 5.8 | 4.1 | 19.5 | 19.05 | 1.27 | 2.8 |
| LF 18 | 9.9 | 5.8 | 4.1 | 22.0 | 21.59 | 1.27 | 2.8 |
| LFS 24 | 10.0 | 5.8 | 4.2 | 22.0 | 20.447 | 0.889 | 2.8 |

*LFS 24: 2.54±0.25

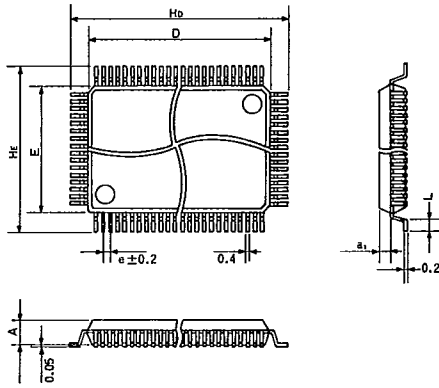


Monolithic ICs



T-90-20

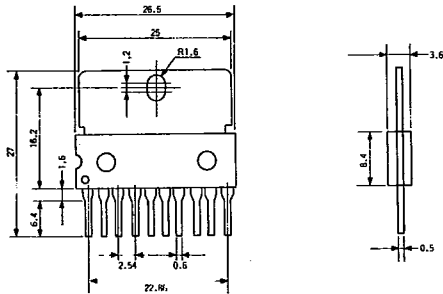
QFP/QFPS



• QFP Dimensions (Unit: mm)

| Package | A | a ₁ | D | e | E | H _E | H _D | L |
|----------|------|----------------|------|------|------|----------------|----------------|-----|
| QFP 32 | 1.45 | 0.65 | 7.0 | 0.8 | 7.0 | 9.0 | 9.0 | 0.4 |
| QFP 44 | 2.15 | 1.0 | 10.0 | 0.8 | 10.0 | 14.0 | 14.0 | 1.2 |
| QFP 64 | 2.15 | 1.0 | 20.0 | 1.0 | 14.0 | 18.0 | 24.0 | 1.2 |
| QFP 80 | 2.7 | 1.275 | 20.0 | 0.8 | 14.0 | 18.0 | 24.0 | 1.2 |
| QFPS 56 | 2.15 | 1.0 | 10.0 | 0.65 | 10.0 | 12.4 | 12.4 | 0.5 |
| QFPS 80 | 2.7 | 1.275 | 14.0 | 0.65 | 14.0 | 16.4 | 16.4 | 0.5 |
| QFPS 100 | 2.7 | 1.275 | 20.0 | 0.65 | 14.0 | 18.0 | 24.0 | 1.2 |

SIP-P 10 pin



SIP-P 12 pin

