

## ●Pseudo inductance

Part No.	Supply voltage (V)	Features	Package
BA8201/F	2~18	DC voltage is output from telephone line. High input impedance and low input/output voltage difference for easier power supply design.	DIP8/SOP8

## ●Cross point mixer

Part No.	Supply voltage(V)	Cross point switch	Input buffer amp.	Output mixing amp.	Features	Package
BU8241F/FS	2.7~5.5	8×8	○	○	Suitable for voice signal mixing of cordless answering phone. Low power consumption Low noise	SOP24/SSOP-A24
BU8242F	2.7~5.5	6×6	○	○		SOP20
BU8244F	2.7~5.5	4×4	○	○		SOP16

## ●Panel interface

Part No.	Supply voltage (V)	Key	LED driver	Key scanning function	Features	Package
BU8310AK	1.8~5.5	7×7	32	○	CPU interface Can call during a power failure Serial data communication	QFP64
BU8311KS	1.8~5.5	7×7	24	○		SQFP56
BU8313K	1.8~5.5	6×5	14	○		QFP44
BU8315S/F	2.0~5.5	6×6	14		With CPU interface, serial data communication	SDIP24/SOP24
<b>New</b> BU8317KV	1.8~5.5	7×7	12	○	Serial data communication with 4×32 LCD driver	VQFP80

## FAX

### ●Telephone unit (Hybrid ICs)

Part No.	Function	Package	Dimensions (mm)	Features
BP3004	For Japanese model Redial, pause, mixed dial, flash piezoelectric ringer, and ECM/piezoelectric MIC/dynamic SP/piezoelectric SP	DIP28	48×38×14	Add only a handset, keyboard, and ringer speaker to build a complete telephone. Complies with the Technical Standards for Telecommunication Terminal Equipment.

Note : For packaging, please see packaging specification in Hybrid ICs on page 64.

### ●Speakerphone unit (Hybrid ICs)

Part No.	Function	Package	Dimensions (mm)	Features
BP3511	Speakerphone processor and power amplifier	SIP18	49×21.5×9	Operates with single 5V power supply. Can be connected to telephone handset microphone and speaker. <b>No howling.</b>

Note : For packaging, please see packaging specification in Hybrid ICs on page 64.

### ●Gray scale processor for FAX

Part No.	Supply voltage (V)	Error distribution method	Scale	Simple binary	Image Sensor interface	A/D converter	Shading compensation	γ compensation	Reduction	Remarks	Package
BU2134AK	5	5bit	32	○	○	○(6bit)	○	○	Optional	Digital ABC	QFP64
<b>New</b> BU2135K	5	6bit	64	○	○	○(8bit)	○	○	Optional	Digital ABC	QFP64

Note : Six bit and five bit error distributions are equivalent to 64 and 32 halftones respectively.

### ●Single chip sound circuit for FAX

Part No.	Supply voltage (V)	cross point	Electronic volume	ALC	VOX	Balanced input	Output mixing	Features	Package
<b>New</b> BH8220KS	4.5~5.5	9in×8out	4	1	1	2	3	Serial control No-ringing control	SQFP56