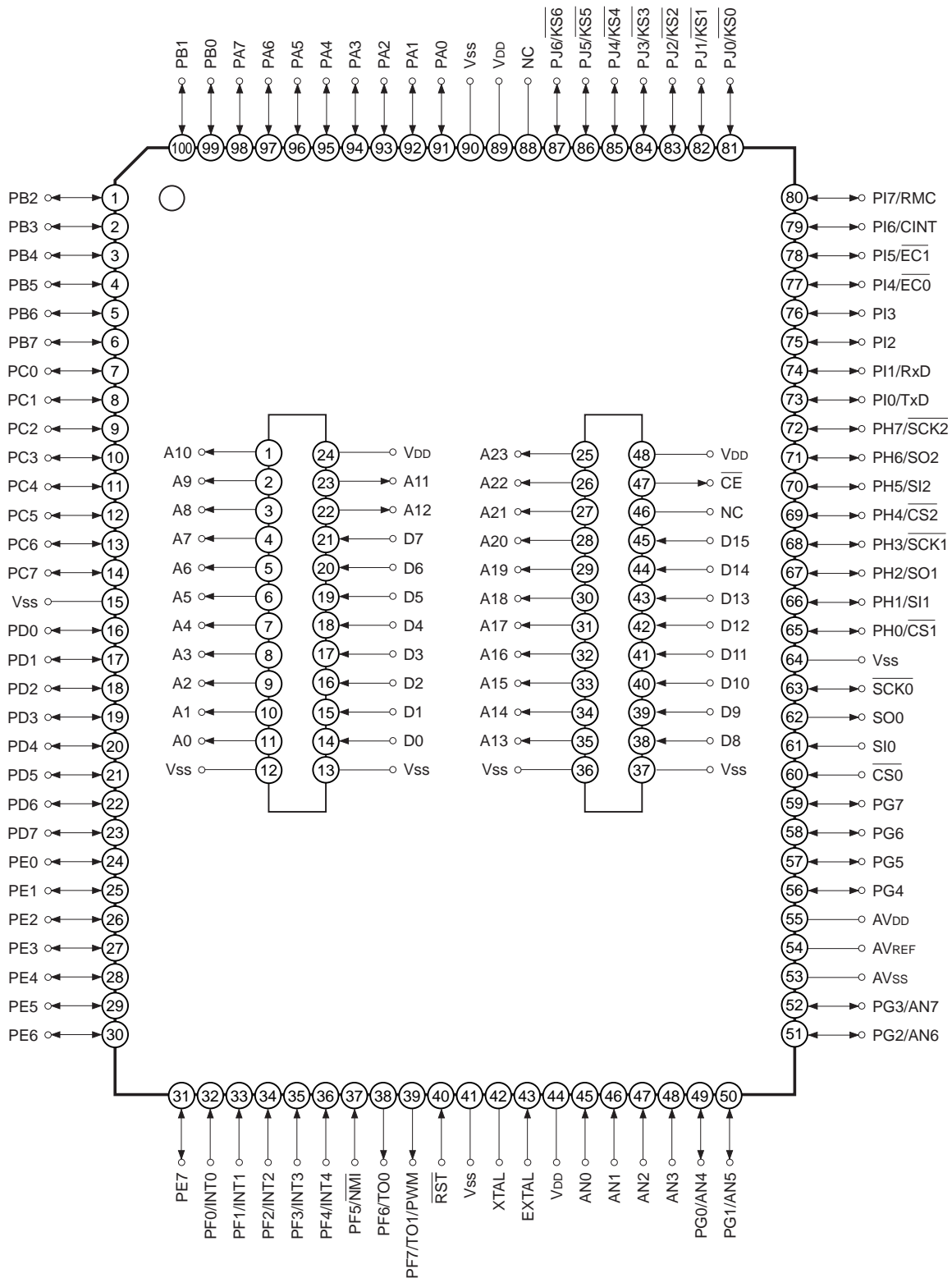


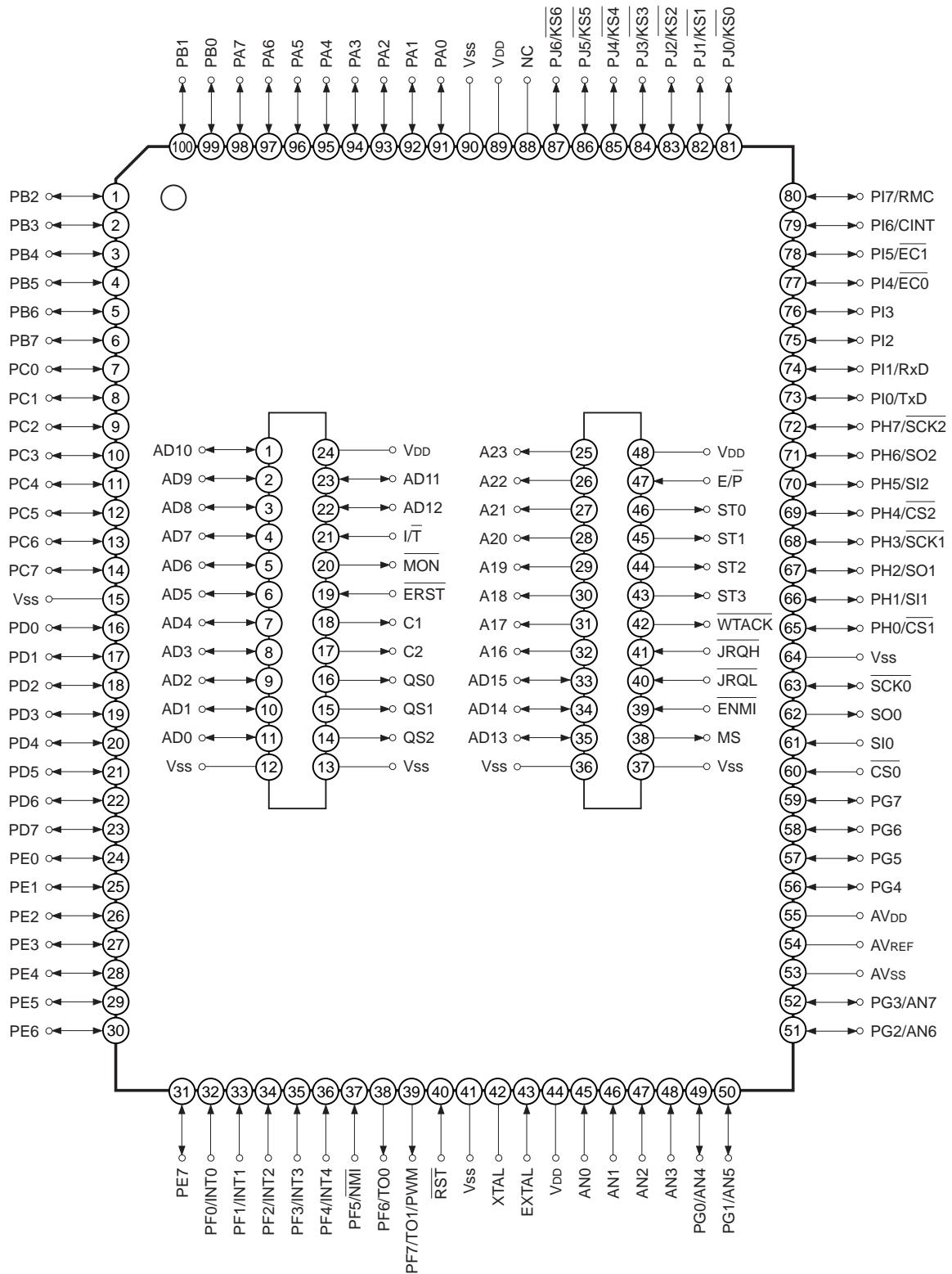


Pin Assignment in Piggyback Mode



- Note)**
1. Do not make any connections to NC (Pin 88).
  2. Vss (Pins 15, 41, 64 and 90) are connected to GND.
  3. VDD (Pins 44 and 89) are both connected to VDD.
  4. A19 to A23 are always high level output.

Pin Assignment in Evaluator Mode



- Note)**
1. Do not make any connections to NC (Pin 88).
  2. Vss (Pins 15, 41, 64 and 90) are connected to GND.
  3. VDD (Pins 44 and 89) are both connected to VDD.

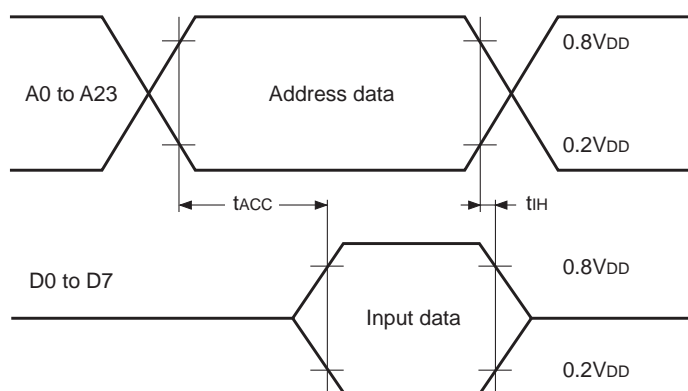
**EPROM Read Timing**

( $T_a = -20$  to  $+75^\circ\text{C}$ ,  $V_{DD} = 2.7$  to  $5.5\text{V}$ ,  $V_{SS} = 0\text{V}$ )

Item	Symbol	Pins	Min.	Max.	Unit
Address → data Input delay time	$t_{ACC}$	A0 to A23 D0 to D15		100*1	ns
				50*2	
Address → data hold time	$t_{IH}$	A0 to A23 D0 to D15	0		ns

\*1 At 12MHz operation ( $V_{DD} = 3.0$  to  $5.5\text{V}$ )

\*2 At 12MHz operation ( $V_{DD} = 2.7$  to  $5.5\text{V}$ ), at 20MHz operation ( $V_{DD} = 3.0$  to  $5.5\text{V}$ )



**Product List**

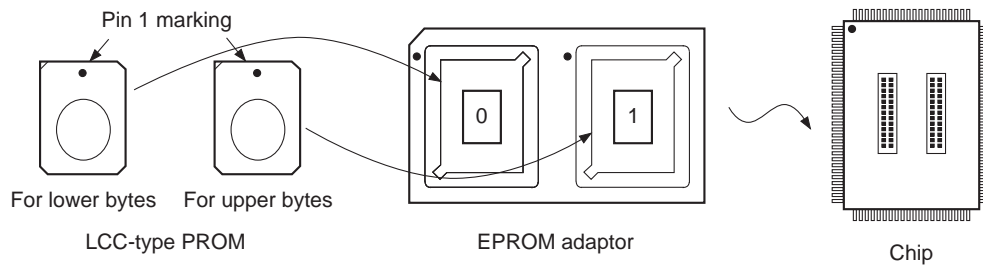
Optional item	Products	
	Mask ROM	Piggy/evaluation chip
	CXP922032	CXP922000-U01Q
Package	100-pin plastic QFP	100-pin ceramic PQFP ( QFP supported )
ROM capacity	128K bytes	EPROM 128K bytes
Reset pin pull-up resistor	Existent/Non-existent	Existent

**Switching of Piggyback Mode and Evaluator Mode**

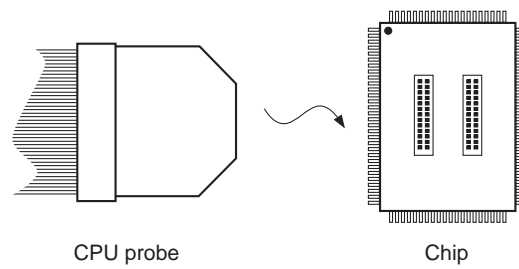
Piggyback mode can be used by setting two LCC-type EPROM (for upper bytes, for lower byte) and connecting to the connector of top of the chip.

Evaluator mode can be used by connecting in-circuit emulator CPU probe to the connector of top of the chip.

**Piggyback mode**

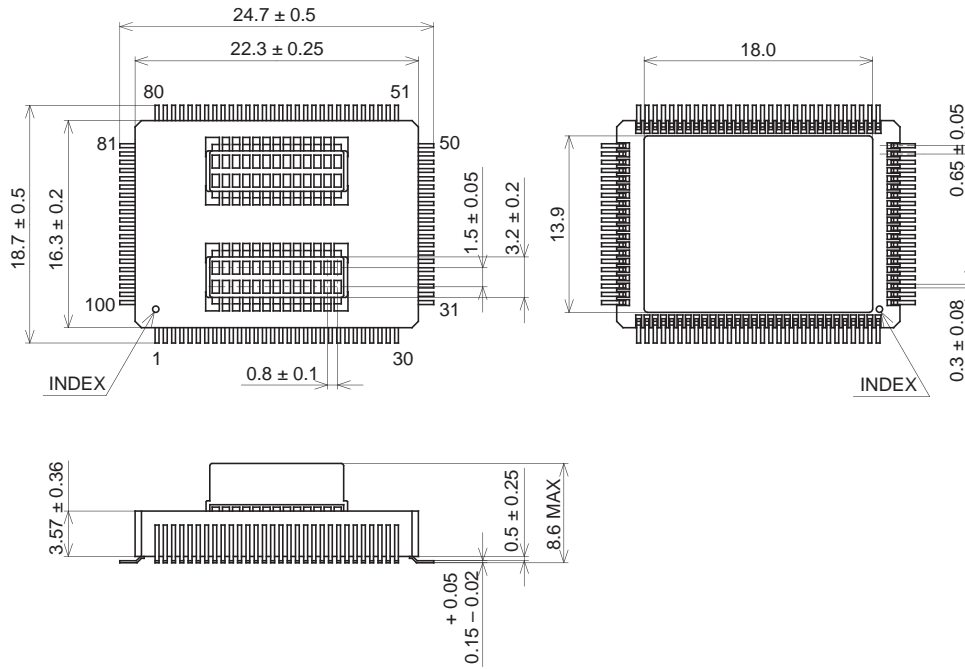


**Evaluator mode**



Package Outline Unit: mm

100PIN PQFP(CERAMIC)



PACKAGE STRUCTURE

SONY CODE	PQFP-100C-L04
EIAJ CODE	AQFP100-C-0000
JEDEC CODE	-----

PACKAGE MATERIAL	CERAMIC
LEAD TREATMENT	GOLD PLATING
LEAD MATERIAL	42 ALLOY
PACKAGE MASS	4.9g



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