

SONY.**CXB1100Q/Q-Y****Quad 3-input OR/NOR Gate**

T-43-22

Description

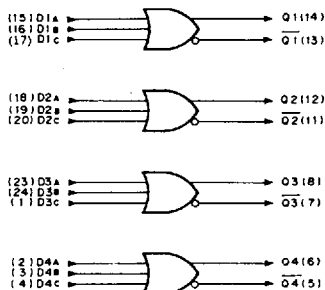
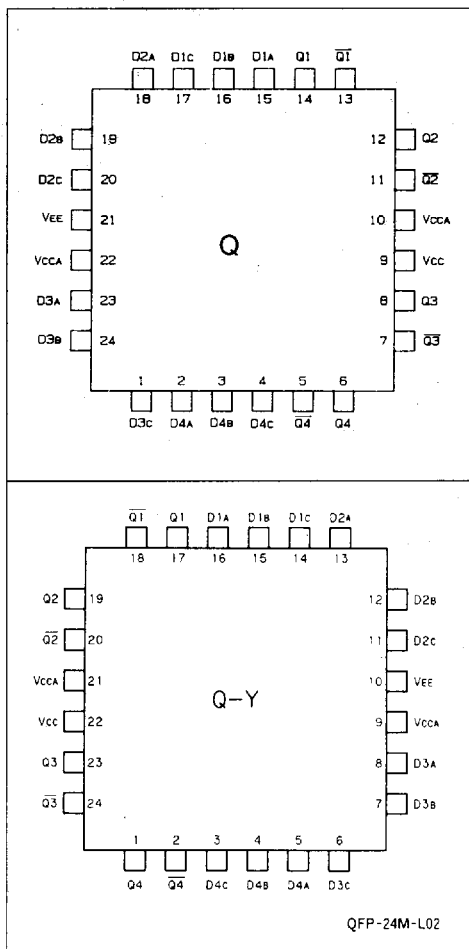
The CXB1100Q is an ultra high speed monolithic ECL IC, which contains four 3-input OR/NOR gates.

Features

- Typical AC characteristics $T_{pd}=410ps$
 $T_{TLH}=210ps$
 $T_{THL}=160ps$
- Internal pull down resistors on input pins to maintain logic LOW level with the pins left open
- ECL 100K compatible I/O levels
- Differential output

Pin Names

D1a-D1c	Data inputs
Q1, $\overline{Q1}$	Data outputs
Vcc	Circuit ground
VCCA	Circuit ground for outputs
VEE	Negative power supply

Logic Symbol**Pin Assignment**

SONY®

CXB1100Q/QY

T-43-22**DC Characteristics** $V_{EE} = -4.5 \pm 0.3V$, $V_{CC} = V_{CCA} = GND$, $V_{TT} = -2.0V$, $T_c = 0^\circ C$ to $+85^\circ C$

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Power supply current	I_{EE}		-127	-93	-65	mA

Note: Other DC characteristics; See pages 3-3 and 3-4.

AC Characteristics $V_{EE} = -4.5 \pm 0.3V$, $V_{CC} = V_{CCA} = GND$, $V_{TT} = -2.0V$, $T_c = 0^\circ C$ to $+85^\circ C$, $R_T = 50\Omega$ to V_{TT}

Item	Symbol	Input	Output	Test Condition	Min.	Typ.	Max.	Unit
Propagation delay time	T_{PLH}	Dn	Qn		300	410	520	ps
	T_{PHL}				300	410	520	
Rise time	T_{TLH}			20% to 80%		210	270	
Fall time	T_{THL}					160	210	

Note: AC test circuit; See page 4-3.

Package Data

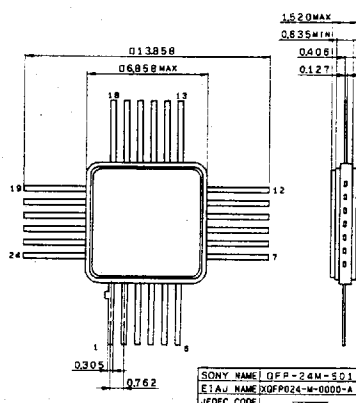
T-90-20

Package Outline

Unit: mm

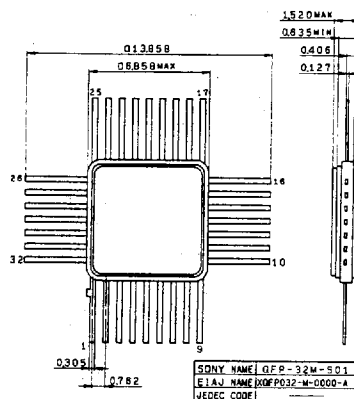
24pin QFP (QFP-24M-S01)

24pin QFP (Metal) 0.3g



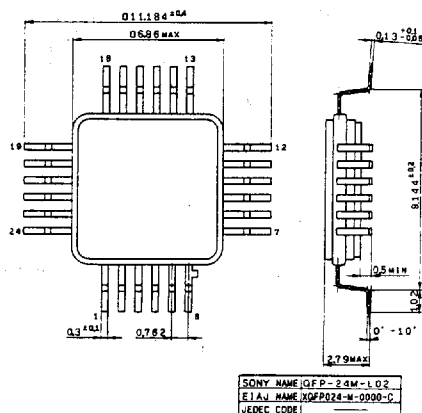
32pin QFP (QFP-32M-S01)

32pin QFP (Metal) 0.2g



24pin QFP (QFP-24M-L02)

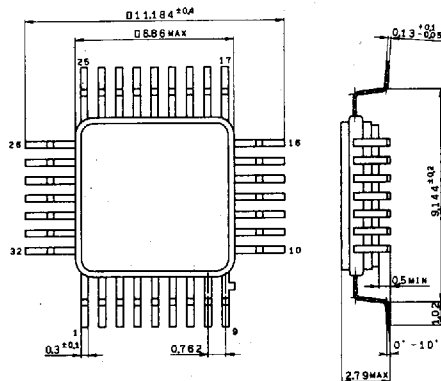
24pin QFP (Metal) 0.3g



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32pin QFP (QFP-32M-L02)

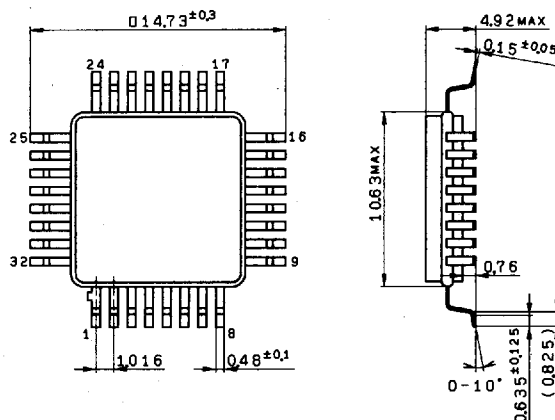
32pin QFP (Metal) 0.2g



SONY NAME	QFP-32M-L02
EIAJ NAME	XQFP032-M-0000-C
JEDEC CODE	

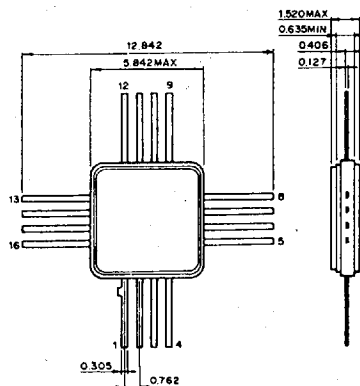
32pin QFP (QFP-32C-L01)

32pin QFP (Ceramic)



SONY NAME	QFP-32C-L01
EIAJ NAME	XQFP032-G-0000-A
JEDEC CODE	

16pin QFP



Package Data

Package Data	Page
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2. 24 pin QFP	6-3
3. 32 pin QFP	6-3
4. 24 pin QFP with formed lead	6-4
5. 32 pin QFP with formed lead	6-4

Package Data

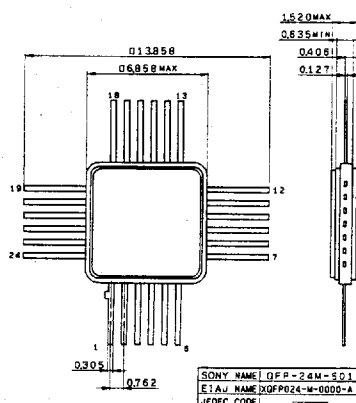
T-90-20

Package Outline

Unit: mm

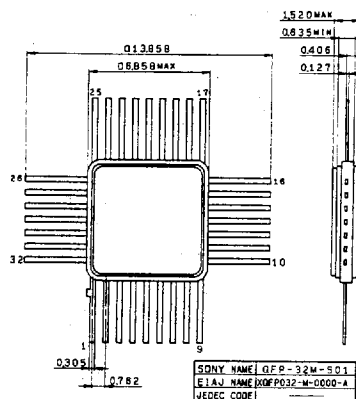
24pin QFP (QFP-24M-S01)

24pin QFP (Metal) 0.3g



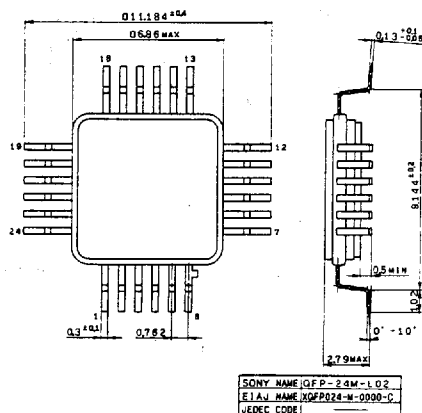
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32pin QFP (Metal) 0.2g



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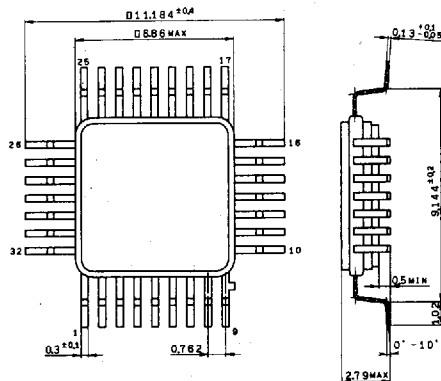
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32pin QFP (QFP-32M-L02)

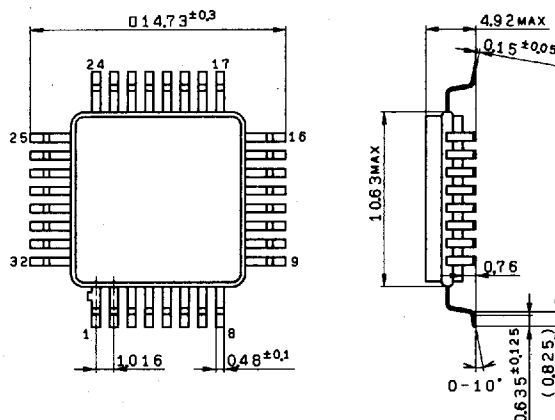
32pin QFP (Metal) 0.2g



SONY NAME	QFP-32M-L02
EIAJ NAME	XQFP032-M-0000-C
JEDEC CODE	

32pin QFP (QFP-32C-L01)

32pin QFP (Ceramic)



SONY NAME	QFP-32C-L01
EIAJ NAME	XQFP032-G-0000-A
JEDEC CODE	

16pin QFP

