

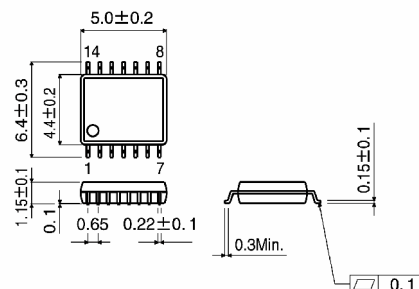
PLL IC for portable telephone BU8750FV

●Description

The BU8750FV is a PLL synthesizer IC that provides the 9.8304MHz frequency required for CDMA system portable telephones.

TCXO can be selected from 19.2MHz, 19.68MHz and 19.8MHz to match the manufacturer's set.

●Dimension (Units : mm)



SSOP-B14

●Features

- 1) Available in 3 kinds of TCXO
(19.2MHz, 19.68MHz, 19.8MHz)
- 2) Built-in digital lock detect circuit
- 3) Excellent C/N

●Applications

CDMA portable telephones

●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	V _{DD}	4.5	V
Power dissipation	P _d	350	mW
Operating temperature range	T _{opr}	-30 ~ +85	°C
Storage temperature range	T _{stg}	-55 ~ +125	°C

Derating : 3.5mW/°C for operation above Ta=25°C.

●Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V _{DD}	2.85	3.0	3.15	V

●Electrical characteristics (Unless otherwise noted, Ta=25°C, Vcc= 3V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Stand-by current	IDD1	—	—	10	μA	POFF='L', PLLOFF='L'
Operating current consumption	IDD3	—	—	5	mA	POFF='H', PLLOFF='H'
Output frequency	fox8	—	9.8304	—	MHz	
Stable time	Tsx8	—	—	6	ms	Power ON, 10%~90%
C/N	CN1 8	40	—	—	dBc/Hz	f=1kHz
	CN2 8	45	—	—	dBc/Hz	f=10kHz
	CN3 8	80	—	—	dBc/Hz	f=100kHz

●Block Diagram

