

# DVB-S2 Digital BS Tuner Unit with Internal Demodulator

BSBE2 Series

www.DataSheet4U.com



Internal demodulator model contributing to improved set design flexibility through a variety of mounting types.

for Broadcasting Use

Home Use Digital Terrestrial Tuners

Digital CATV Tuners

Digital BS Tuners

Automotive Use Digital Terrestrial Tuners

Antennas

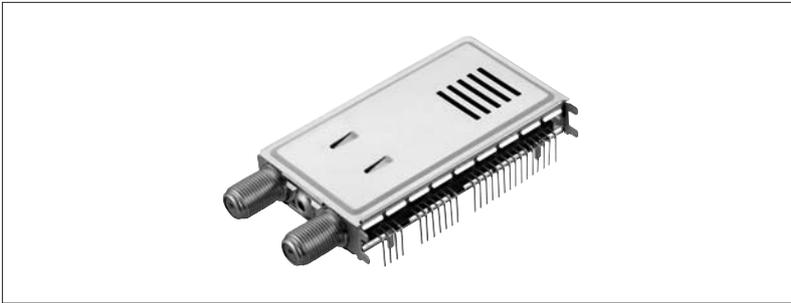
Home Use FM/AM Tuners

FM/AM Tuner for HD Radio™ Broadcasting

Automotive Use FM/AM Tuners

for Communication Use

RF Module for Data Communication



## Features

- DVB-S2 and DVB-S formats both supported, in size similar to that of our "BSBE1" series.
- Achieving effective heat dissipation through the structure of the tuner's exterior cladding.
- Excellent noise muffling capability due to shield structure.
- A variety of mounting types contribute to flexibility in set design.

## Applications

- For TVs, set top boxes and for DVD-S2 format satellite digital broadcasts

## Typical Specifications

Items	Model	BSBE2
Input frequency range		950 to 2150MHz
Input level range		-65 to -25dBm
Input VSWR		2.0 typ.
Tuning control		I <sup>2</sup> C bus
Demodulation format		DVB-S2, DVB-S
Demodulator IC		Conexant Systems CX24116
Symbol rate		4 to 30M sps
Symbol voltage		+3.3V, +1.25V

## Dimensions

**1 input vertical type**

Technical drawings showing dimensions for the 1 input vertical type tuner unit. Key dimensions include: 13 max., 5.80, 6.30, 21±0.30, 33, 41 max., 2-2.50±0.30, 3.75, 3.75, 35.0±0.30, 14.50, 1.80, 71.5 max., RF input, (Type F Conn.) 3/8-32UNE-F-2A, 2-0.6±0.10, 2-0.9±0.30, 2pitch, 26-10.50±0.10, 63, 70±0.30, 2-2.50±0.10, 3.75, 3.75.

No.	Terminal assignment
①	LNB POWER (RF INPUT)
②	N/C
③	+B1 (RF-AMP)
④	+B2 (DCR)
⑤	
⑥	
⑦	RESET
⑧	ERROR
⑨	AS
⑩	DISeGCTx
⑪	DISeG Rx
⑫	+BS (I/F)
⑬	GND
⑭	
⑮	
⑯	GND
⑰	+B4 (CORE)
⑱	SYNC
⑲	DATA VALID
⑳	DATA 7
㉑	DATA 6
㉒	DATA 5
㉓	DATA 4
㉔	DATA 3
㉕	DATA 2
㉖	DATA 1
㉗	DATA 0
㉘	CLK_OUT
㉙	SDA
㉚	SCL

## Product Line

Model	Destination	Form of ANT input	Input frequency range (MHz)	Outline dimensions (mm)	Volume (ml)	Function	Minimum packing unit (pcs.)	Page
BSBE2	World wide	1-input	950 to 2150	71.5×41.0	38	For DVB-S2, DVB-S IQ Demod. A/D Conv., 8PSK, QPSK Demod., FEC circuit direct conversion	100	11
		1-input/1-output						

### Note

Please order a minimum of 1,000 pieces or more.

## Ordering Instructions

In order to provide a quicker response to your order, please fill in the essential items in the following check sheet.

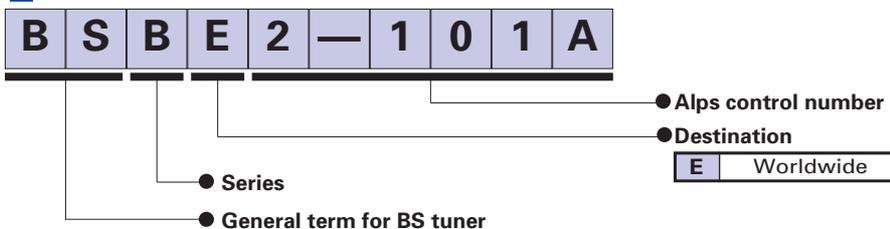
No.	Items	Descriptions
1	Destination	<input type="checkbox"/> U.S.A. <input type="checkbox"/> Europe <input type="checkbox"/> Japan <input type="checkbox"/> Korea
2	Form of ANT input	<input type="checkbox"/> 1-input <input type="checkbox"/> 1-input/1-output (Distributor)
3	Mounting form	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal
4	Symbol rate	<input type="checkbox"/> 1 to 45Mbauds <input type="checkbox"/> 1 to 30Mbauds
5	Schedule	ES1    ES2    Approval    P/P    M/P /    /    /    /    /
6	Others	

### Note

Other special specifications and details are available upon request.

## Product Numbering System

### BSBE Series



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