

# DIGITAL DBS FRONT-END UNITS

## ■ Digital DBS Front-End Units (QPSK Demodulator Circuit Built-in Type)

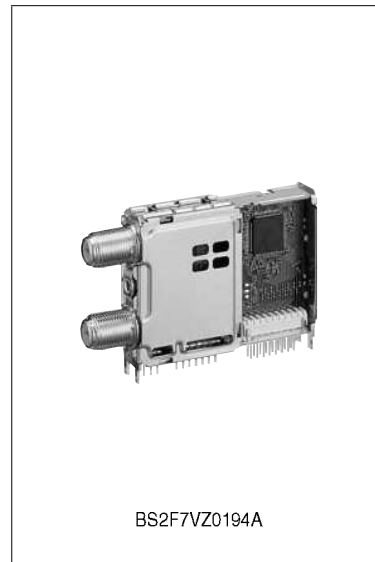
### ◆ Specifications <QPSK demodulator circuit built-in type>

Destination	Europe/U.S.A./Japan	
Input type	1-input/RF with loop through	
Model No.	BS2F7VZ0194A	BS2F7VZ0724
Input frequency (MHz)	950 to 2 150	
Input signal level (dB m)	-65 to -25	
The 1st intermediate frequency (MHz)	Zero-IF (Direct conversion)	
Base band frequency bandwidth (MHz)	10 to 30, 2.0 MHz step (BB LPF)	
RF input local leak (dB m)	-63 (MAX.)	
Output type	8-bit transport	
Symbol rate (M baud)	45 (MAX.)	
BER (Viterbi output)	Eb/No = 5.5 dB (Max.) [PR = 3/4, BER = 2 x 10 <sup>-4</sup> ]	
Channel selection system	PLL (I <sup>2</sup> C-bus)*1	
Noise figure (dB)	12 (MAX.)	
Tuning voltage (V DC)	(Not required)*2	
Supply voltage (V DC)	3.3, 2.5	3.3, 1.8
LNB power supply	25 V DC, 400 mA (MAX.)	
Input impedance (Ω)	75	
Outline dimensions (mm)	55.1 x 37.9 x 11.0	

\* Contact SHARP for custom design product.

\*1 I<sup>2</sup>C-bus is a trademark of Philips Corporation.

\*2 Terminal supply voltage is not required.



## ■ Digital DBS Front-End Units (8 PSK Demodulator Circuit Built-in Type)

### ◆ Specifications <8 PSK demodulator circuit built-in type>

Destination	Japan	
Input type/Features	1-input	1-input, 1-loop through output
Model No.	BS2F7VZ6460	BS2F7VZ0441
Input frequency (MHz)	950 to 2 150	
Input signal level (dB m)	-65 to -25	
The 1st intermediate frequency (MHz)	Zero-IF (Direct conversion)	
Base band frequency bandwidth (MHz)	22 (BB LPF) variable type	22.5 (BB LPF) variable type
RF input local leak (dB m)	-63 (MAX.)	
Output type	Serial transport output	Parallel/serial transport output
Symbol rate (M baud)	28.86	
Channel selection system	PLL (I <sup>2</sup> C-bus)*1	
Noise figure (dB)	8 (TYP.)	
Tuning voltage (V DC)	(Not required)*2	30
Supply voltage (V DC)	3.3, 1.5	5, 3.3, 2.5
LNB power supply	25 V DC, 400 mA (MAX.)	
Input impedance (Ω)	75	
Outline dimensions (mm)	65.8 x 26.0 x 13.7 (MAX.)	70.0 x 35.9 x 11.0

\*1 I<sup>2</sup>C-bus is a trademark of Philips Corporation.

\*2 Terminal supply voltage is not required.



#### Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.