

# PRODUCT INFORMATION

# SHARP

RF Components  
Group

## BSFH77G29

## Satellite Tuner

### FEATURES

- Digital AFT out
- Standup Package
- AGC sample out
- Internal tuning via PLL
- Compact, lightweight design (22 cc)

### DESCRIPTION

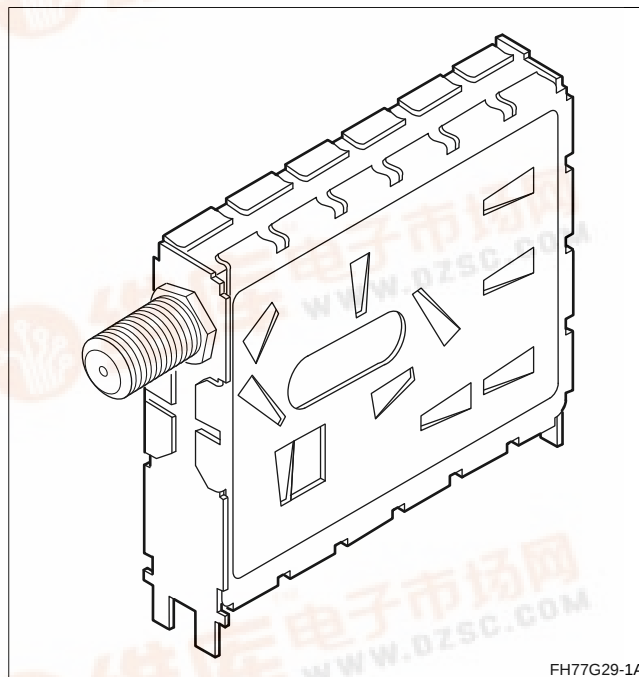
The BSFH77G29 is an integrated single conversion tuner and FM demodulator. It was designed for the reception of analog signals. It has a single input and a combined video and audio output. The input frequency range is 920 to 2,050 MHz. A 27 MHz switchable bandpass filter is positioned at the first IF. A digital AFT output is provided for evaluation of receiver system accuracy.

This tuner can be controlled by an internal TSA5055S PLL with I2C interface.

For more information on this product, please contact your local Sharp representative.

### APPLICATIONS:

- Satellite receiver
- Data receiver
- Wide-band front end



FH77G29-1A

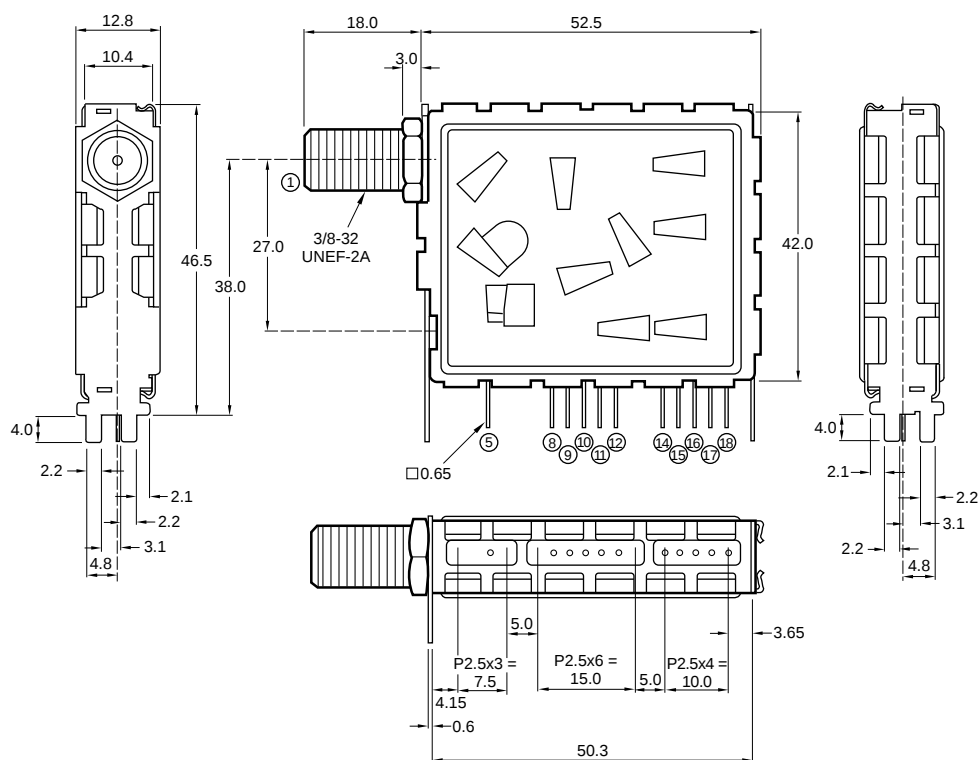
### SPECIFICATIONS

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Receiving Frequency Range | 920 to 2,050 MHz                              |
| Input Level               | -60 to -30 dBm                                |
| Input Impedance           | 75 $\Omega$                                   |
| Intermediate Frequency    | 479.5 MHz                                     |
| Channel Selection System  | Frequency synthesizer with I2C (Clock: 4 MHz) |
| Operating Supply Voltage  | 5 $\pm$ 0.3 V                                 |
| Operating ODU Voltage     | 25 V                                          |
| Operating Tuning Voltage  | 28 $\pm$ 1.4 V                                |
| IF Bandwidth              | 27 MHz                                        |
| Demodulation System       | PLL                                           |
| Input Structure           | F type female                                 |
| Prescaler Division Ratio  | -                                             |

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## BSFH77G29 MECHANICAL DIMENSIONS



| NO. | NAME      | I/O | VOLT (V) | NOTE        |
|-----|-----------|-----|----------|-------------|
| 1   | RF IN     | I   |          |             |
| 2   |           |     |          |             |
| 3   |           |     |          |             |
| 4   |           |     |          |             |
| 5   | B1 (LNB)  | I   |          | TO LNB      |
| 6   |           |     |          |             |
| 7   |           |     |          |             |
| 8   | AFT OUT 1 | O   |          | DIGITAL AFT |
| 9   | AFT OUT 2 | O   |          | DIGITAL AFT |
| 10  | AGC       | O   |          | AGC OUT     |
| 11  | B2        | I   | +5       |             |
| 12  | BASE BAND | O   |          | BB OUT      |
| 13  |           |     |          |             |
| 14  | SDA       | I/O |          |             |
| 15  | TUN       | I   | +28      |             |
| 16  | SCL       | I   |          |             |
| 17  | P7        | I/O |          |             |
| 18  | P5        | I/O |          |             |

NOTE: Dimensions are in mm.

FH77G29-2A

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