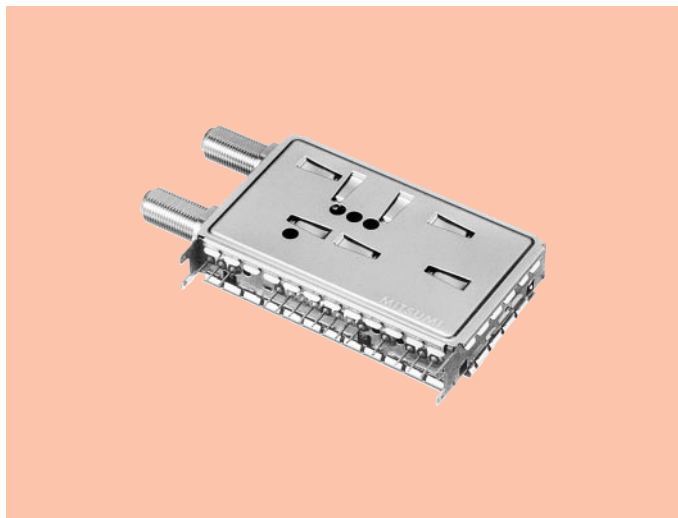


2nd RF Units for Digital Satellite Broadcasting Receiver TSU9 Series

DBS 2nd RF Units, CATV Converters

OUTLINE

TSU9 series is a compact and lightweight second RF unit incorporating I/Q demodulator for receiving digital satellite broadcasting.



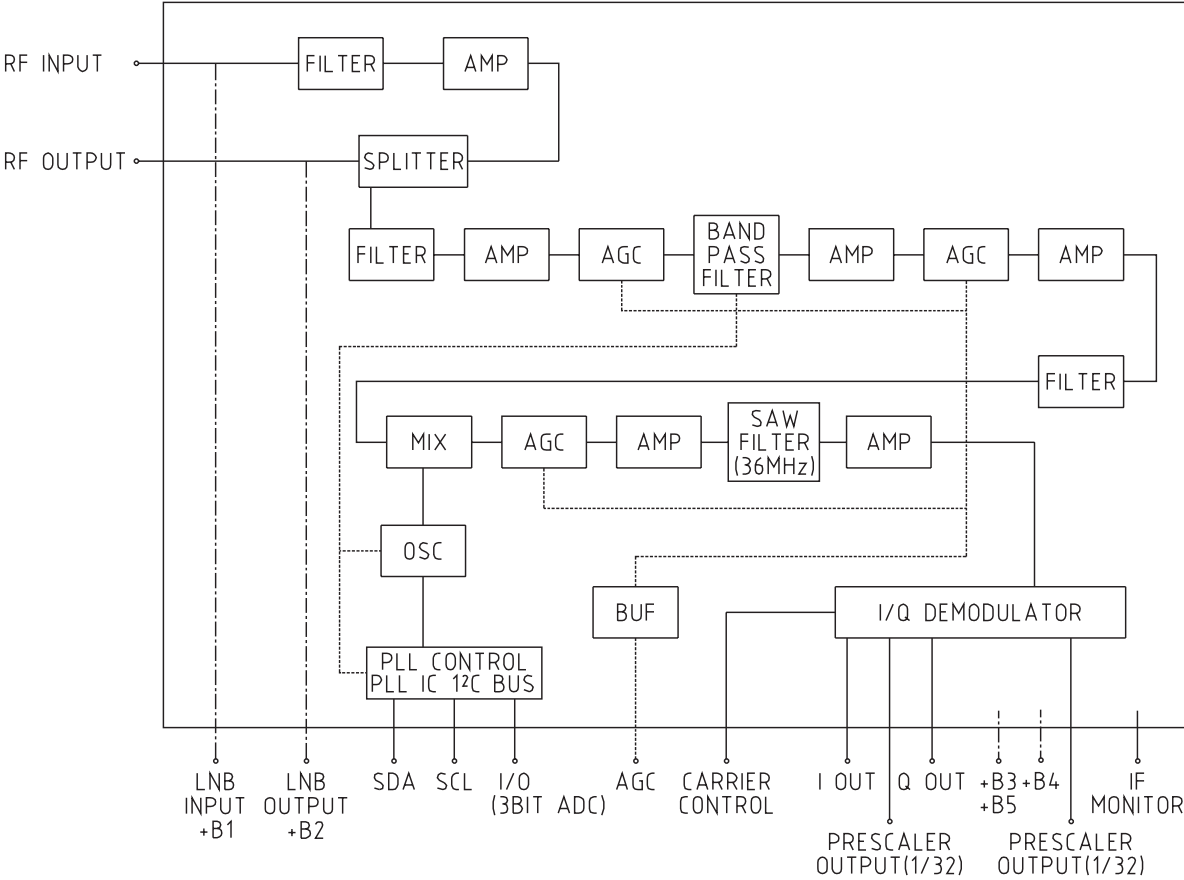
FEATURE

1. Incorporates an I/Q demodulator.
2. Superb sensitivity and distortion characteristic.
3. Provided with a carrier control terminal that can control local oscillator frequency for I/Q demodulator.
4. Incorporates a distributor for connection to analog tuner.
5. Incorporates an IF-band switch.
6. Incorporates a PLL circuit that provides excellent phase noise characteristic.
7. A wide range of receivable input frequency.
8. Provided with a pre-scaler output terminal for I/Q demodulator.

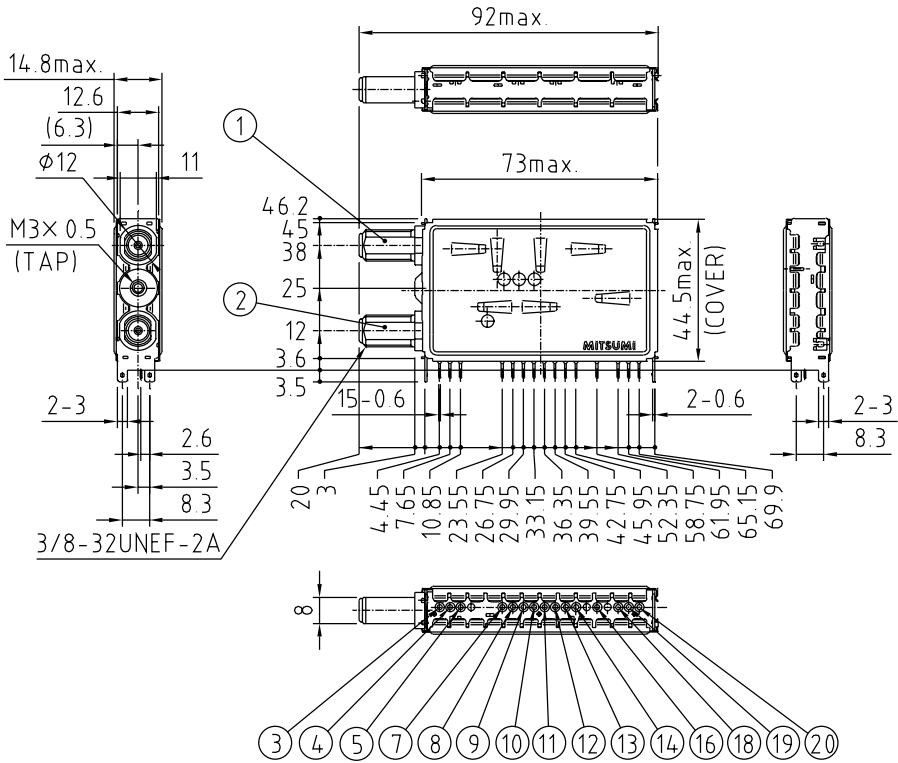
SPECIFICATIONS

Item		Models	TSU9-EO1DT	Remarks
Input Frequency			950~2050MHz	
Input Impedance			75Ω	
Input Level			-25~-70dBm	F-female or IEC-female
IF Frequency			479.5MHz	
IQ Output Level			0.5Vp-p typ.	
Phase Noise			-78dBc/Hz	at 10kHz off
I/Q Phase Error			±3DEG max.	
I/Q Amplitude Error			±1.5dB max.	
Intermodulation			-40dBc typ.	at 3 signals

BLOCK DIAGRAM



DIMENSIONS



Terminals
1. RF Input
2. RF Output
3. +B1 to LNB Input
4. +B2 to LNB Output
5. +B5 (+5V)
6. Carrier Control
7. I. Out
8. Q. Out
9. Prescaler Out
10. +B3 (+5V)
11. IF Monitor
12. AGC Control
13. _____
14. +B4 (+28V)
15. _____
16. Date
17. Clock
18. I/O Out (3 BIT ADC)
19. Prescaler Out

Unit : mm
General Tolerance : ±0.5mm