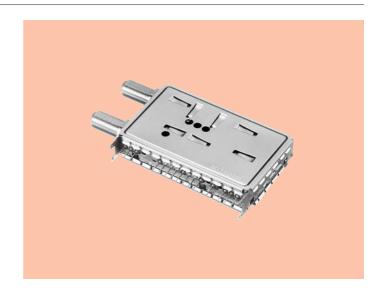
# 2nd RF Units for Digital Satellite Broadcasting Receiver TSU9 Series

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.



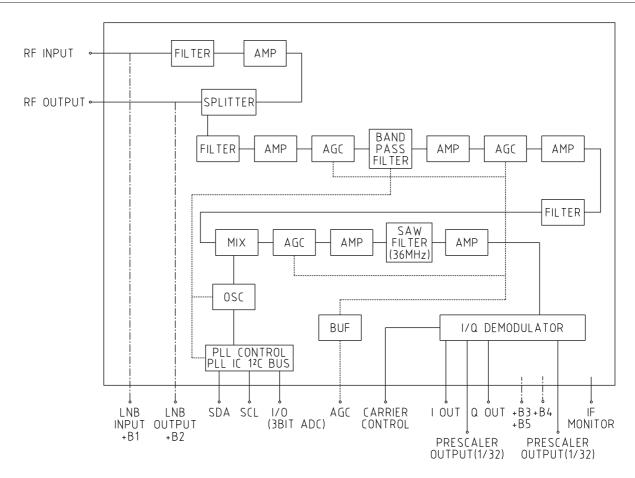
#### FEATURE

- 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.

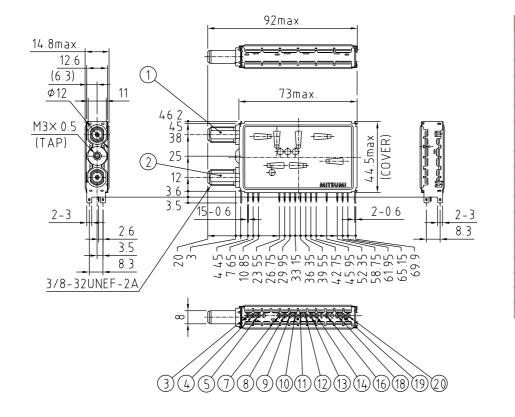
# SPECIFICATIONS

Models Item	TSU9-EO1DT	Remarks
Input Frequency	950~2050MHz	
Input Impedance	$75\Omega$	
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



reminais
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

Torminale

Unit: mm

General Tolerance: ±0.5mm