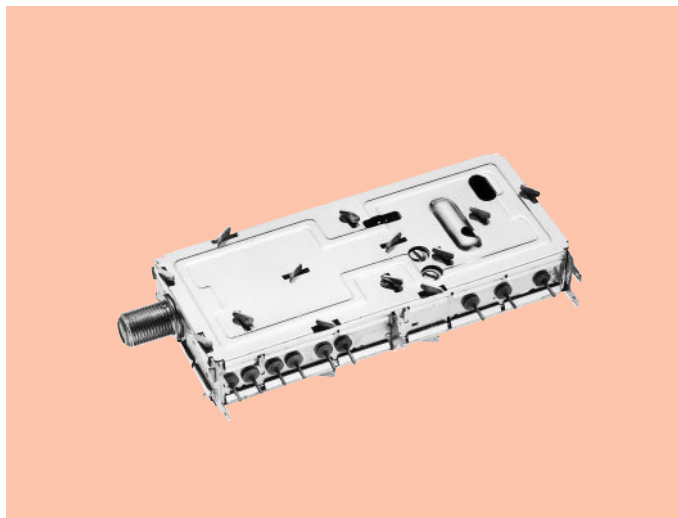


# CATV Up/Down Converter CATV 15 Series

DBS 2nd RF Units, CATV Converters

## OUTLINE

CATV15 CONVERTER is use max. 83ch CATV Cable SETTOP system.



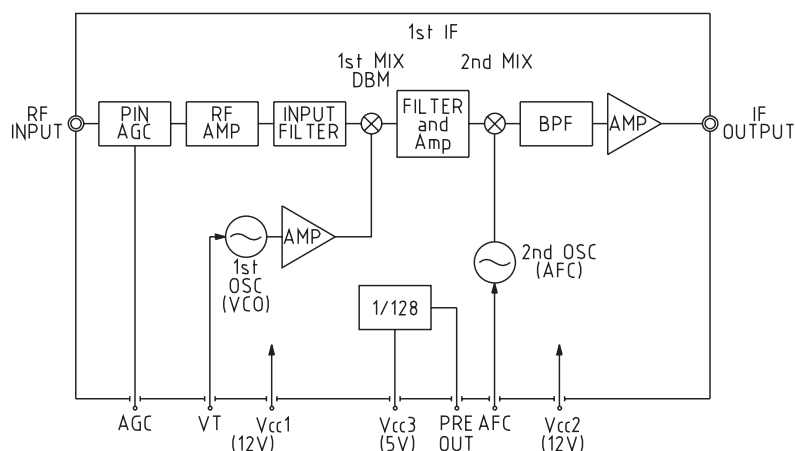
## FEATURES

1. Input frequency is 50 to 550MHz.
2. Use chip component Small and lightweight.
3. 1st IF (612MHz ) use HERICAL filter and dielectric filter. High quality.
4. Included prescaler IC.

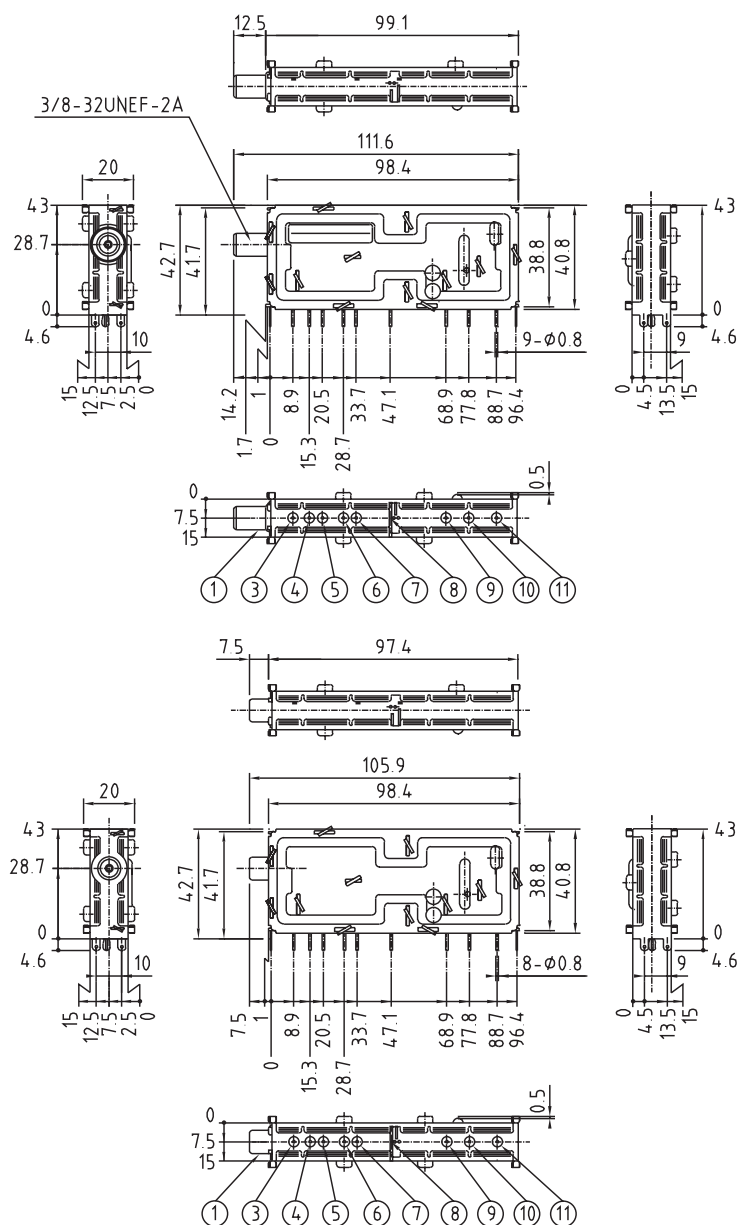
## SPECIFICATIONS

| Item                   | CATV15-A56F                        | CATV15-E56F                        |
|------------------------|------------------------------------|------------------------------------|
| Input Frequency Range  | 52~552MHz                          | 45~552MHz                          |
| Output Channel         | US BASE BAND                       | European BASE BAND                 |
| Input Impedance        | 75Ω                                | 75Ω                                |
| Output Impedance       | 75Ω                                | 75Ω                                |
| Input Return Loss      | 7dB min.                           | 7dB min.                           |
| Output Return Loss     | 12dB min.                          | 12dB min.                          |
| Input Signal Level     | -5~+15dBmV                         | -5~+15dBmV                         |
| Power Gain             | 20~30dB                            | 20~30dB                            |
| Noise Figure           | 10dB max.                          | 10dB max.                          |
| Supply Voltage         | 12V : 200mA max.<br>5V : 30mA max. | 12V : 200mA max.<br>5V : 30mA max. |
| Prescaler Output Level | 0.5Vp-p min.                       | 0.5Vp-p min.                       |
| Gain Reduction         | 20dB min.                          | 20dB min.                          |

## BLOCK DIAGRAM



## DIMENSIONS



| Terminals |                  |
|-----------|------------------|
| 1.        | Signal Input     |
| 2.        | —                |
| 3.        | AGC              |
| 4.        | VT (+1~+27V)     |
| 5.        | Vcc 1 (+12V)     |
| 6.        | Vcc 3 (+5V)      |
| 7.        | Prescaler Output |
| 8.        | GND              |
| 9.        | AFC (+6V)        |
| 10.       | Vcc 2 (+12V)     |
| 11.       | Signal Output    |

General Tolerance :  $\pm 0.5\text{mm}$   
Unit : mm