

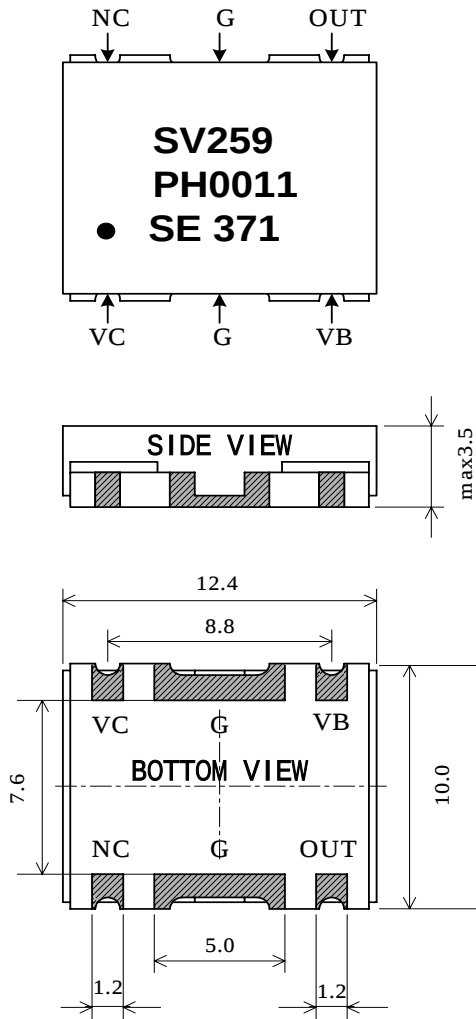
## 1. APPLICATION

PHS IF

## 2. PART No.

SV259PH0011

## 3. DIMENSIONS



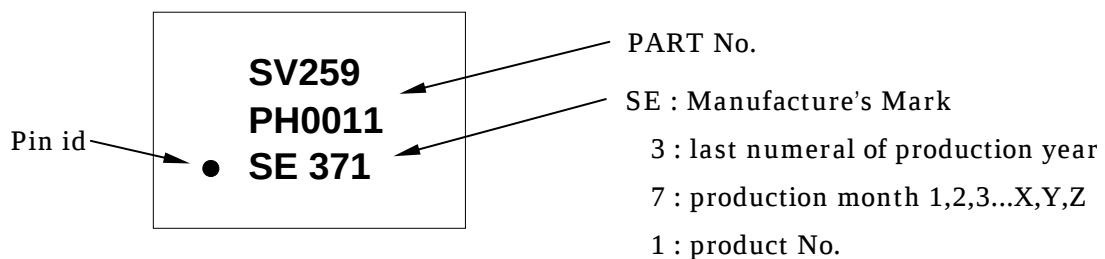
OUT : RF OUTPUT  
VB : POWER SUPPLY  
VC : CONTROL VOLT.  
G : GROUND  
NC : GROUND

NOTE : There is no mark of terminals on the case.

: Terminal electrodes

Unit : mm  
Tolerances :  
Unless otherwise specified,  $\pm 0.3$  mm

## 4. MARKING

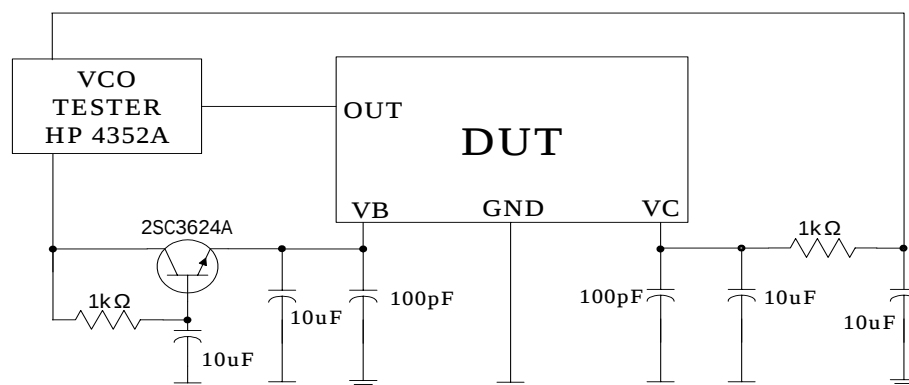


## 5. LIMITING VALUES

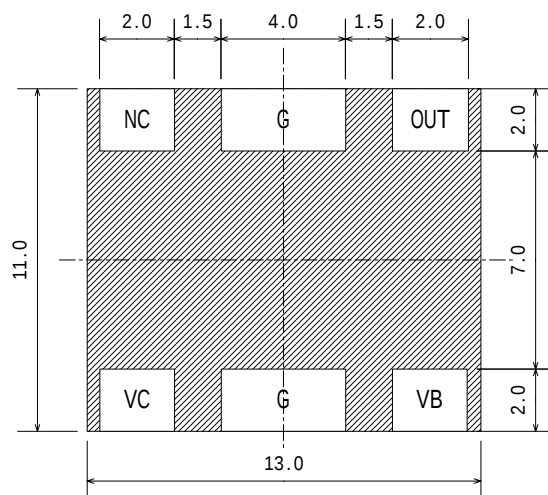
| Item                        | Test Condition                        | Value  |        |        | Unit   |
|-----------------------------|---------------------------------------|--------|--------|--------|--------|
|                             |                                       | min.   | typ.   | max.   |        |
| Supply Voltage              | VB                                    | 2.8    | 3.0    | 3.2    | V      |
| Control Voltage Range       | VC                                    | 0.5    | 1.5    | 2.5    | V      |
| Current Consumption         | VB=3.0V, -20Deg.C up to +80Deg.C      | -      | 6      | 10     | mA     |
| Oscillation Frequency       | VC=0.5V, -20Deg.C up to +80Deg.C      | -      | 255.25 | 258.25 | MHz    |
|                             | VC=2.5V, -20Deg.C up to +80Deg.C      | 260.25 | 263.25 | -      |        |
| Control Voltage Sensitivity | VC=0.5V up to 2.5V average            | 2.5    | 4      | 5.5    | MHz/V  |
| Output Level                | Load=50ohm, +25Deg.C +/- 5Deg.C       | -2.0   | +0.5   | +3.0   | dBm    |
|                             | Load=50ohm, -20Deg.C up to +80Deg.C   | -3.0   | -      | +4.0   |        |
| Phase Noise                 | offset=25kHz, -20Deg.C up to +80Deg.C | 115    | 121    | -      | dBc/Hz |
| Pushing Figure              | VB=3.0V +/- 0.2V, ref=3.0V            | -0.5   | -      | +0.5   | MHz    |
| Pulling Figure              | VSWR=2 for all phase, ref=50ohm       | -0.5   | -      | +0.5   | MHz    |
| Temperature Stability       | -20Deg.C up to +80Deg.C, ref=+25Deg.C | -1     | -      | +1     | MHz    |
| Harmonic Suppression        | Till Third harmonics                  | -      | -23    | -15    | dBc    |
| Operating Temp. Range       |                                       | -20    | -      | +80    | Deg.C  |
| Storage Temp. Range         |                                       | -40    | -      | +85    | Deg.C  |

Note: Unless otherwise VB=3.0V, VC=1.5V, Ta=+25Deg.C +/- 5Deg.C, Load=50ohm

## 6. MEASUREMENT PROCEDURE



## 7. RECOMMENDED LAND PATTERN



Note :

Any line pattern shall be avoided on shaded portion.

Unit : mm