



SMO12567V

Data Communication VCO(Voltage Controlled Oscillator) Module

Use

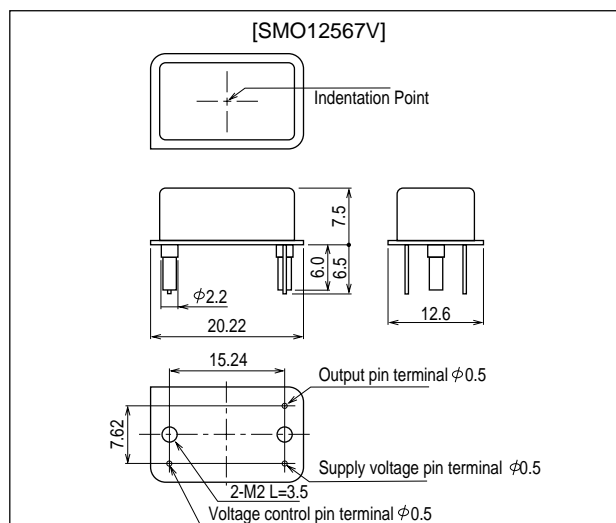
- VCO(Voltage Controlled Oscillator) module for VSAT / FWA.

Features

- VCO possible to finely adjust its oscillation frequency.
- Even smaller / thinner package.
- Low phase noise.
- Built-in attenuator enables good load stability.
- High reliability due to hermetic seal.

Package Dimensions

unit : mm
1306



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Ratings	Unit
Operating Voltage	V_D	6	V
Control Voltage	V_C	15	V
Operating Temperature	Topg	-30 to +75	°C
Storage Temperature	Tstg	-40 to +80	°C

Electrical Characteristics at Ta=25°C

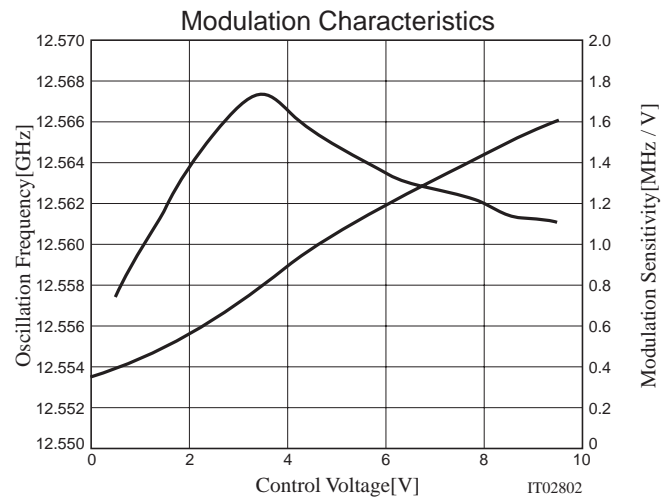
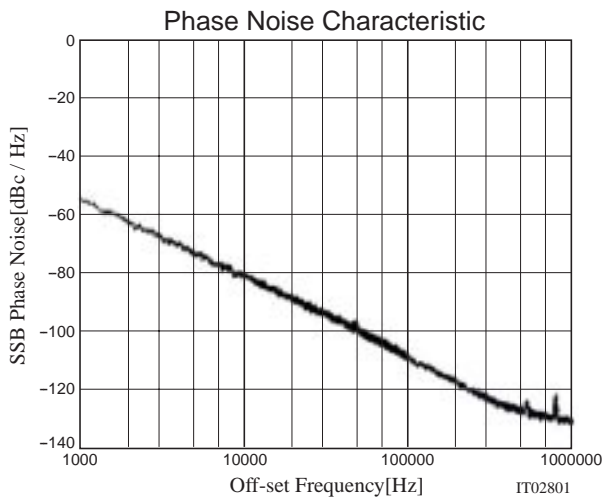
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Oscillating Frequency	fo	VD=5V, VC=5V	12560±0.5			MHz
Output Power	Po	VD=5V, VC=5V, f=fo	6.0	9.0		dBm
Operating Current	ID	VD=5V, VC=5V, f=fo		40.0	60.0	mA
Modulation Sensitivity	f _m	VD=5V, VC=5±1V	1.00	1.50		MHz / V
Output Power Stability	ΔPr	VD=5V, VC=5±4.5V	Within ±1.0			dB
Voltage Stability	ΔfV	VD=5±0.1V, VC=5V	Within ±0.50			MHz
Temperature Stability	ΔfT	VD=5V, VC=5V, -30°C to +75°C	Within ±3.0			MHz
Load Stability	ΔfL	VD=5V, VC=5V, VSWR : 1.5	Within ±1.0			MHz
		VD=5V, VC=5V, VSWR : 3.0	Neither oscillation stop nor jump observed			
Phase Noise	Np	VD=5V, VC=5V, off-carrier : 10kHz		-85	-80	dBc / Hz
		VD=5V, VC=5V, off-carrier : 100kHz		-102	-100	

*1 Reference temperature : +25°C

*2 Otherwise specified DUT (Load VSWR : 1.0) is used in measurement.

*3 All values above are for reference. Contact your local SANYO sales representative for your requiring specifications.

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