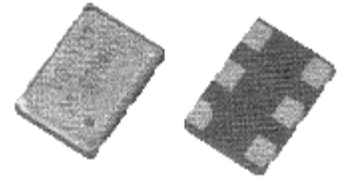


VCXO-SMD series VO 103

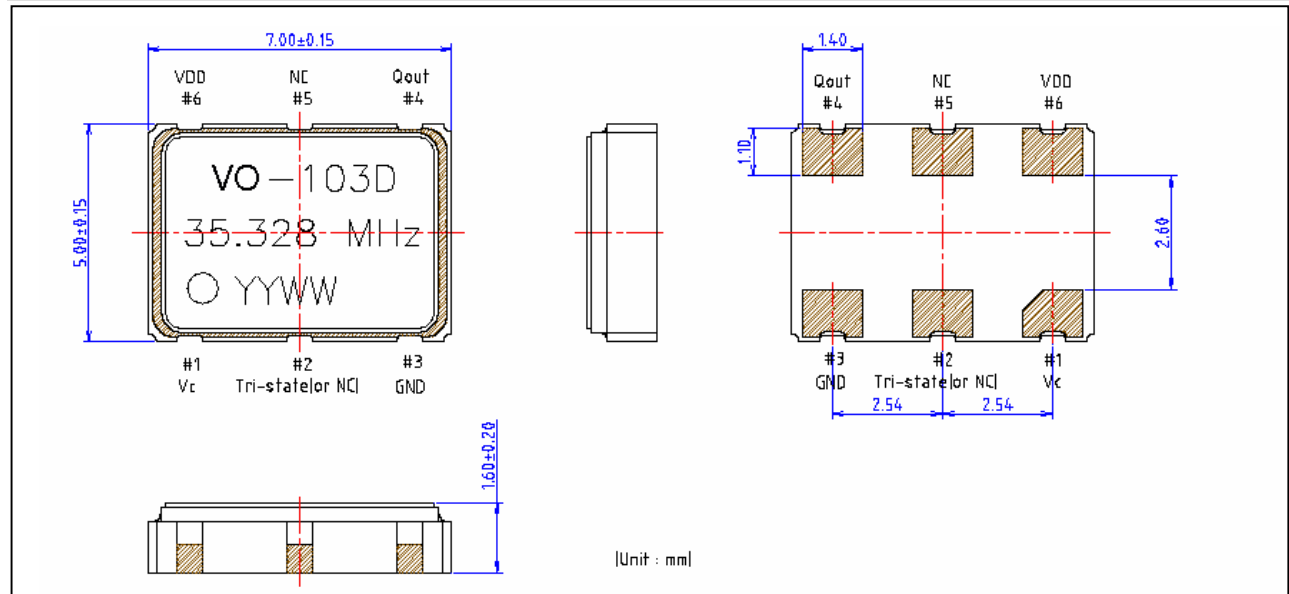
VOLTAGE CONTROLLED CRYSTAL OSCILLATOR - CERAMIC SMD PACKAGE



Characteristics

Type	VO 103	VO 103D
Frequency range	1.544 MHz – 55 MHz	1.544 MHz – 40 MHz
Supply voltage	3,3 V \pm 5%	3,3 V \pm 5%
Supply current	10 to 15 mA	10 to 15 mA
Frequency stability with temperature		
-40°C to +85°C	\pm 100,50,25,20 ppm	\pm 100,50,25,20 ppm
-20°C to +70°C	\pm 50,25,20,15 ppm	\pm 50,25,20,15 ppm
Frequency adjustment	V_{ctrl}	V_{ctrl}
Pulling voltage	0,15 V to 3,15 V	0,15 V to 3,15 V
Minimal frequency voltage offset standard	-80 to +80 ppm	-80 to +80 ppm
Minimal frequency voltage offset option	-150 to +150 ppm	-120 to +120 ppm
Frequency linearity	\pm 10% max	\pm 10% max
Waveform	CMOS	CMOS
Load	15 pF	15 pF
H level V_H	3 V < V_H	3 V < V_H
L level V_L	V_L < 0,3V	V_L < 0,3V
Duty cycle	45 – 55 %	45 – 55 %
Rise time/Fall time	5 ns max	5 ns max
Start-up time	10 ms max	10 ms max
Modulation bandwidth		10 kHz min @ -3dB

Outline drawing



Note

Applications: Set-top box, ADSL modems, XDSL modems, PLL circuit, FM modulators, Cellular base station, Test equipment