

The ECS-VCO Series offers a wide range of frequency coverage from 20MHz to 2800MHz for various wireless communications applications requiring Carrier to Noise Ratio and or Signal to Noise Ratio. Using L.C. oscillation for strip-line design combination the ECS-VCO drastically shortens development process time. It also allows fine tuning for final characteristics of VCO in a quick manner.

FEATURES

- Wide frequency range from 20~2800MHz
- Power supply as low as 2.0VDC
- Current consumption as low as 3mA
- Reflow soldering at 240°C
- Customized designs available

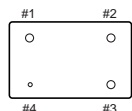
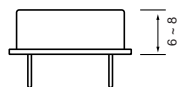
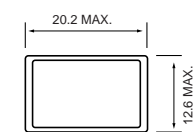
Applications

Cellular phones, private mobile radios, cordless phones, (GPS) global positioning systems receiver, variety of wireless communications equipment, high-precision, high stability, ultra high frequency oscillators.

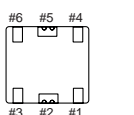
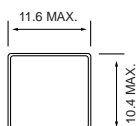
OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PART TYPE	APPLICATION RANGE	SUPPLY VOLTAGE	C/N @25KHZ SEP.	OUTPUT	FEATURES
SMOP	20~500MHz	3~12V	~ 120dBc/Hz	1) 0dBm 2) 2.5Vp-p min	Hermetically sealed housing High reliability Possible to drive IC directly
SME	200~2500MHz	3~12V	~ 110dBc/Hz	0dBm	Compact in size Tape & reel Withstand reflow process
SMS	100~2800MHz	3~12V	~ 120dBc/Hz	0dBm	Wider VCO range Quick development Withstand reflow process
SMOS	20~2500MHz	2~12V	~ 120dBc/Hz	1) 0dBm 2) 2.5Vp-p min	Possible to drive IC directly Withstand reflow process
WPS-T/R	100~600MHz	3~12V	~ 115dBc/Hz	0dBm	TR/RX in one module Withstand reflow process

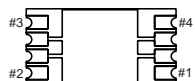
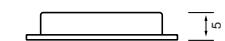
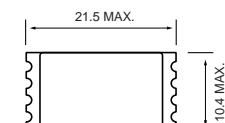
PACKAGE DIMENSIONS (mm)



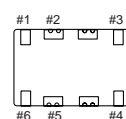
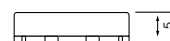
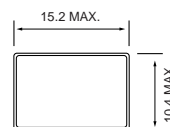
SMOP PIN CONNECTIONS	
#1	RF OUTPUT
#2	VCC
#3	VT (TUNING V)
#4	GROUND



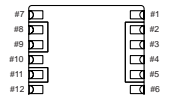
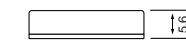
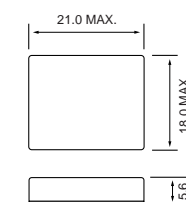
SME PIN CONNECTIONS	
#1	VT
#2	GROUND
#3	VCC
#4	RF OUTPUT
#5	GROUND
#6	RX-N.C. TX MODULATION



SMOS PIN CONNECTIONS	
#1	RF OUTPUT
#2	VCC
#3	VT
#4	GROUND



SMS PIN CONNECTIONS	
#1	VT
#2	GROUND
#3	VCC
#4	RF OUTPUT
#5	GROUND
#6	RX-N.C. TX MODULATION



WPS-T/R PIN CONNECTIONS	
#1	GND
#2	TX OUT
#3	TX VCC
#4	MOD
#5	TX VT
#6	GND
#7	GND
#8	RX VT
#9	GND
#10	RX VT
#11	RX OUT
#12	GND