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## Series V6020-95 Miniaturized Voltage Controlled Oscillators

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Application Notes for [Microwave Oscillators](#)

General Microwave has developed a family of high-speed, miniaturized VCOs covering the 2-6 GHz frequency range. These VCOs have been utilized in airborne EW applications, as well as in ground-based simulators. The specifications are summarized below.



[General Microwave Product Catalog](#)

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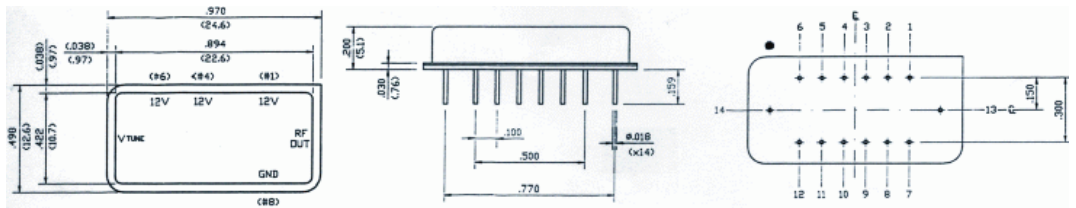

Series V6020-95X Miniaturized VCO

### MINIATURIZED VCO SPECIFICATIONS

PARAMETER	MODEL			
	V6020-952C	V6020-953C	V6020-954C	V6020-955C
FREQUENCY RANGE (GHz)	2.0-2.8	2.8-3.8	3.8-4.9	4.9-6-1
FREQUENCY SETTling <sup>(1)</sup> , max (MHz) within 1 μsec	±1			
RF POWER	+13			
Output, min (dBm)				
Variation, max (dB)	±2			
PHASE NOISE, max (dBc/Hz) @ 100 kHz offset	-105		-100	
HARMONICS, max (dBc)	-20			
SPURIOUS, max (dBc)	-60			
TEMPERATURE STABILITY, typ (MHz/°C)	-0.6		-1.0	
PULLING VSWR 3:1 typ (MHz)	2		3	5
PUSHING, typ (MHz/V)	6		10	
POWER SUPPLY REQUIREMENT	+12 ±0.5			
Voltage (Vdc)				
Current, max (mA)	125			
Tuning (Vdc)	0 to +28			
TUNING PORT CAPACITANCE, max (pF)	50			
ENVIRONMENTAL	0 to +85			
Operating temperature (°C)				
Storage temperature (°C)	-54 to +125			
MECHANICAL DIMENSIONS	0.97 x 0.50 x 0.20			
Inches				
Millimeters	24.6 x 12.7 x 5.1			

(1) Δf relative to f after 1 millisecond

### DIMENSIONS AND WEIGHTS



All Models: 0.15 oz.; (4.34 grams) approx.

Dimensional Tolerances, unless otherwise indicated: .XX ±.02; .XXX ±.005

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