

**CRYSTAL OSCILLATOR (SPXO)**  
OUTPUT : LV-PECL, LVDS

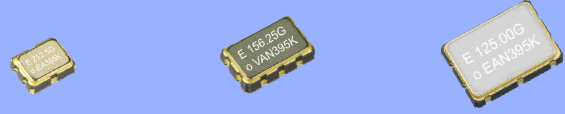
**NEW**



Product Number (please contact us)  
**SG3225EAN**: X1G004251xxxx00  
**SG3225VAN**: X1G004241xxxx00  
**SG5032EAN**: X1G004271xxxx00  
**SG5032VAN**: X1G004261xxxx00  
**SG7050EAN**: X1G004291xxxx00  
**SG7050VAN**: X1G004281xxxx00

**SG3225EAN / VAN**  
**SG5032EAN / VAN**  
**SG7050EAN / VAN**

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- Frequency range : 73.5 MHz to 700 MHz
- Supply voltage : 2.5 V to 3.3 V
- Function : Output enable (OE)
- Output : LV-PECL or LVDS

SG3225EAN/VAN (3.2 × 2.5 × 1.05 mm) Actual size  
 SG5032EAN/VAN (5.0 × 3.2 × 1.0 mm)  
 SG7050EAN/VAN (7.0 × 5.0 × 1.4 mm)



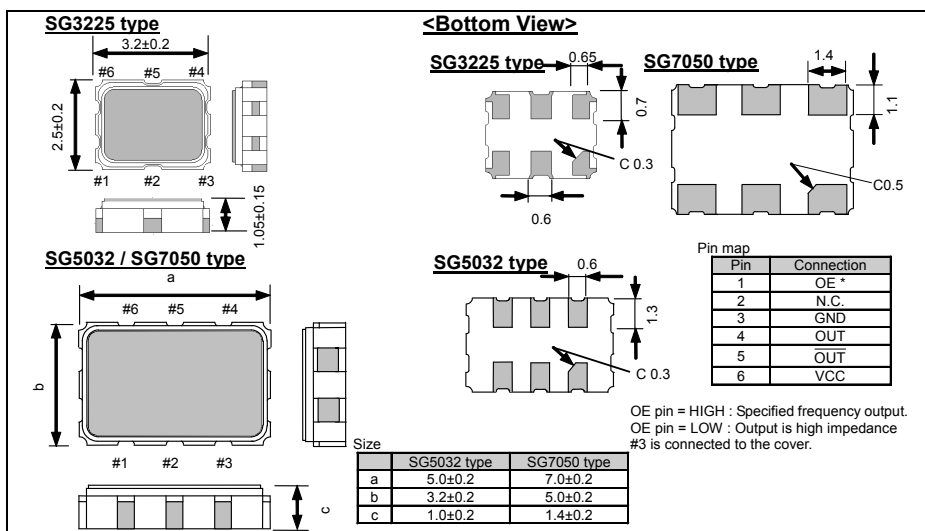
**Specifications (characteristics)**

Item	Symbol	Specifications		Conditions / Remarks
		LV-PECL SG3225EAN / SG5032EAN / SG7050EAN	LVDS SG3225VAN / SG5032VAN / SG7050VAN	
Output frequency range	f <sub>o</sub>	73.5MHz to 700 MHz		Please contact us about available frequencies.
Supply voltage	V <sub>cc</sub>	K: 2.5V to 3.3V		V <sub>cc</sub> ±10%
Storage temperature	T <sub>stg</sub>	-40 °C to +125 °C		Storage as single product.
Operating temperature	T <sub>use</sub>	B: -20 °C to +70 °C, G: -40 °C to +85 °C		
Frequency tolerance	f <sub>tol</sub>	J: ±50 × 10 <sup>-6</sup> , E: ±30 × 10 <sup>-6</sup> , C: ±20 × 10 <sup>-6</sup>		
Current consumption	I <sub>cc</sub>	65 mA Max.	30 mA Max.	OE=V <sub>cc</sub> , L <sub>ECL</sub> =50 Ω or L <sub>LVDS</sub> =100 Ω
Disable current	I <sub>dis</sub>	20 mA Max.		OE=GND
Symmetry	SYM	45 % to 55 %		At outputs crossing point
Output voltage (LV-PECL)	V <sub>OH</sub>	V <sub>cc</sub> -1.0 V to V <sub>cc</sub> -0.8 V		DC characteristics
	V <sub>OL</sub>	V <sub>cc</sub> -1.78 V to V <sub>cc</sub> -1.62 V		
Output voltage (LVDS)	V <sub>OD</sub>	250 mV to 450mV		DC characteristics
	dV <sub>OD</sub>	50 mV Max.		
	V <sub>OS</sub>	1.15 V to 1.35 V		
	dV <sub>OS</sub>	150 mV Max.		
Output load condition (ECL) / (LVDS)	L <sub>ECL</sub>	50 Ω		Terminated to V <sub>cc</sub> -2.0 V
	L <sub>LVDS</sub>	100 Ω		Connected between OUT to OUT
Input voltage	V <sub>IH</sub>	70 % V <sub>cc</sub> Min.		OE terminal
	V <sub>IL</sub>	30 % V <sub>cc</sub> Max.		
Rise time / Fall time	t <sub>r</sub> / t <sub>f</sub>	350 ps Max.	300 ps Max.	Between 20 % and 80 % of (V <sub>OH</sub> -V <sub>OL</sub> ). Between 20 % and 80 % of Differential Output peak to peak voltage
Start-up time	t <sub>str</sub>	3 ms Max.		Time at minimum supply voltage to be 0 s
Phase Jitter	t <sub>PJ</sub>	0.7 ps Max.		Offset frequency: 12 kHz to 20 MHz
Frequency aging	f <sub>aging</sub>	±5 × 10 <sup>-6</sup> / year Max.		+25 °C, First year, V <sub>cc</sub> =2.5 V,3.3 V

Part number **SG3225EAN 156.25000MHZ K J G A** \* Unavailable Combination : KCGA  
 Model Name      Frequency  
 Operating temperature  
 B: -20 °C to +70 °C, G: -40 °C to +85 °C  
 Frequency tolerance J: ±50 × 10<sup>-6</sup>, E: ±30 × 10<sup>-6</sup>, C: ±20 × 10<sup>-6</sup>  
 Supply Voltage K: 2.5 to 3.3 V

**External dimensions**

(Unit:mm)



**Footprint (Recommended)**

(Unit:mm)

