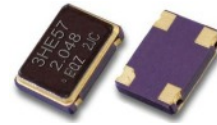


### FEATURES

- Femto second integrated phase jitter 150fs typical (12kHz to 20MHz)
- Superior phase noise performance: -155dBc/Hz at 10kHz and -160dBc at 100kHz offset
- Wide operating temperature available to -40° to +125°C
- Automotive grade



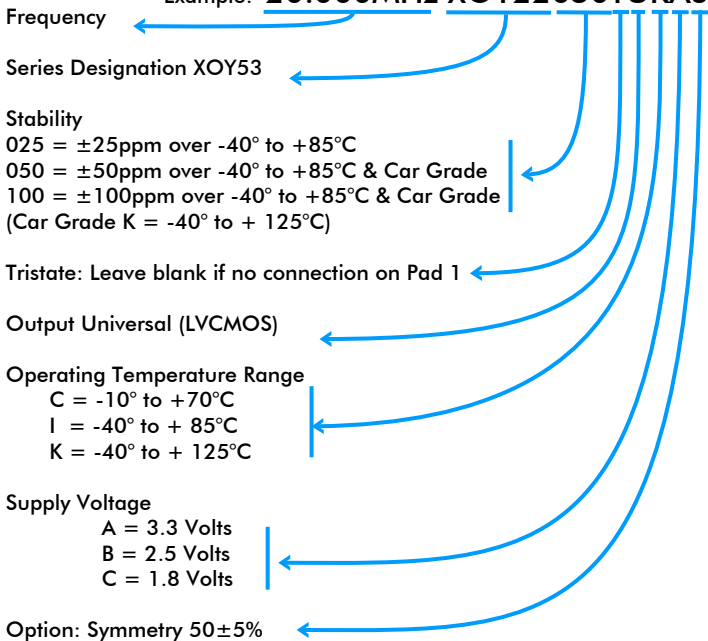
### SPECIFICATION

Model Number	XOY Series		
Frequency Range	1.250MHz to 50.000MHz		
Output Logic	LVCMOS		
Supply Voltage V <sub>DD</sub>	1.8 V <sub>DD</sub> ±10%	+2.5 V <sub>DD</sub> ±10%	+3.3 V <sub>DD</sub> ±10%
Logic High "1" (90% of V <sub>DD</sub> minimum)	1.62V	2.25V	2.97V
Logic Low "0" (10% of V <sub>DD</sub> maximum)	0.18V	0.25V	0.33V
Current Consumption	1.25~19.99MHz	2.0mA (max)	4.0mA (max)
	20~50.00MHz	4.0mA (max)	6.0mA (max)
Rise Time (Tr) / Fall Time (Tf)	10ns (max) measured 10% ~ 90% waveform		
Load	15pF		
Start-up Time	5ms (max)		
Duty Cycle	Standard: 50%±10% ; Option 50% ±5% (Add "S" after the part number for this option)		
Tristate Function	Tristate function on Pad 1 is standard for XOY series oscillators 70% of V <sub>DD</sub> (min) Enable Output 30% of V <sub>DD</sub> (max) Disable Output		
Phase Jitter (RMS) [26MHz, 3.3V]	150 fs typical (12kHz to 20MHz integrated)		

SSB Phase Noise [25MHz, 3.3V]	Offset	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	5MHz
	dBc/Hz (typical)		-94	-127	-142	-156	-161	-163
Storage Temperature	-65° to +150°C							
Ageing at 25°C	±2ppm maximum for first year							
Solder Profile	260°C max.							

### ORDERING/PART NUMBER GENERATION

Example: **20.000MHz XOY22050TUKAS**



### OUTLINE & DIMENSIONS

