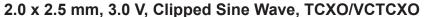
M6064 & M6065 Series



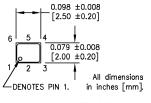


Features:

- Ultra Miniature Package
- Tight Stability Performance
 - Down to ±0.5 ppm
- Standard 6 Pad Configuration

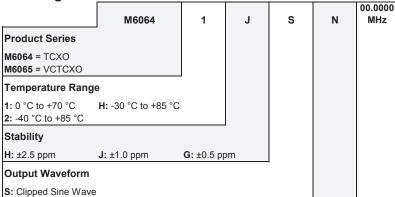
Applications:

- Telecommunications such as SONET / SDH / DWDM / FEC / SERDES / OC-3 thru OC-192
- Wireless base stations / WLAN / Gigabit Ethernet
- · Avionic flight controls and military communications





Ordering Information



Package/Lead Configurations

N: 6 Pad Leadless Ceramic

Frequency (customer specified)

M6064Sxxx & M6065Sxxx - Custom datasheets.

[2.00 ±0.20]
All dimension in inches [mm
0.035 ±0.004 [0.90 ±0.10]
0.091 [2.30] 0.061 [1.55] 0.024 [0.60] 1 0.072 [1.84] 6 5 4 0.030 [0.75] 0.047 [1.20]
GESTED SOLDER PAD LAYOUT

SUGGESTED SOLDER PAD LAYOUT
0.106 [2.70] 0.053 [1.35] 0.028 [0.70] 0.080 [2.04] 0.022 [0.55] 0.043 [1.10]

Pin Connections

Pin	Function				
1	Ground or V _{CT}				
2	N/C				
3	Ground				
4	Output				
5	N/C				
6	+V _{DD}				

	Parameter	Symbol	Min	Тур	Max	Units	Conditions	
	Frequency Range	F _R	10.0		52.0	MHz		
	Frequency Tolerance	ΔF/F	-1.0		+1.0	ppm	@ +25 °C, initial	
		ΔF/F	-1.5		+1.5	ppm	@ +25 °C, after two reflow soldering profiles	
	Frequency Stability	$\Delta F_T/F$	(See Ordering Information) ppm			Over Operating Temperature		
2	Frequency vs Supply Voltage	$\Delta F_{VDD}/F$	-0.2		+0.2	ppm	For ±10% voltage change	
ţi	Frequency vs Load	$\Delta F_{LOAD}/F$	-0.2		+0.2	ppm	For ±10% load change	
Sa	Aging		-1.0		+1.0	ppm	per year @ +40 °C	
šcif	Operating Temperature	(See Ordering Information)						
Electrical Specifications	Input Voltage	V_{DD}	2.85	3	3.15	V		
g	Input Current	I _{DD}			2	mA		
Ė	Output Type	Clipped Sine Wave						
Ë	Output Load		10 kΩ 10 pF					
_	Output Level		0.8			V_{pk-pk}		
	Control Voltage	V _{CT}	0.5	1.5	2.5	V	M6065 only.	
	Frequency Tuning		±5		±12	ppm	M6065 only. $V_{CT} = +1.5 \text{ V}$	
	Phase Noise (Typical)			-85		dBc/Hz	@ 10 Hz	
				-110		dBc/Hz	@ 100 Hz	
				-135		dBc/Hz	@ 1 kHz	
				-150		dBc/Hz	@ 10 kHz	
	Mechanical Shock	Per MIL-STD-202, Method 213 (2000 g, 0.3 ms duration, ½ sine wave)						
Ital	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g from 20 Hz to 2000 Hz)						
neı	Hermeticity	Per MIL-STD-202, Method 112 (1x10 ⁻⁸ atm.cc/s of helium) (Crystal unit only)						
on	Storage Temperature	-55 °C to +105 °C						
Environmental	Solderability	Per EIAJ-STD-002						
ш	Max Soldering Conditions	See Solder Profile, Figure 1						
	Package	6-pad 2.0 X 2.5 X 0.9 mm leadless ceramic. RoHS compliant.						





