

TXO83, VTX83 series



■用途

Mobile communications, GPS, etc

■特長

- Small ceramic package, Size: 5.0×3.2×1.05 [mm]
- High stability ±2.5ppm/-30°C~+75°C
- Low current consumption
- Low phase noise
- Clipped sine output (DC coupled)



■仕様

Model	TXO832025LJ	VTX832025LJH	
Frequency range	6.000 ~ 45.000 MHz		
Nominal frequency [MHz]	8, 10, 12, 12.8, 13, 14.4, 16.368, 19.2, 19.8, 20, 24.5535, 26, 40		
Frequency stability	Tolerance at 25°C		
	±1.5 × 10 ⁻⁶ (Sixty minutes after reflow)		
	Temperature (+25°C basis)		
	±2.5 × 10 ⁻⁶ / -30~+75°C		
Supply voltage stability		±0.2 × 10 ⁻⁶ / Vcc ± 5%	
Load stability		±0.2 × 10 ⁻⁶ / ZL ± 10%	
Aging	±1.0 × 10 ⁻⁶ / year at +25°C		
Storage temperature range	-40~+85°C		
Power supply voltage (Vcc)	+2.8V, +3.0V, +3.3V, +5.0V DC ±5%		
Current consumption	1.5mA max. (~20MHz) 2.0mA max. (~32MHz)	2.5mA max. (~45MHz)	
Output	Load (ZL)	10kΩ//10pF	
	Voltage	0.8Vp-p min.	
	Waveform	Clipped Sine Wave (DC-coupled output)	
External controlfunction	Frequency tuning range	—	±8.0×10 ⁻⁶ min. (Positive)
	External control voltage	—	+1.5V±1.0V DC
	Input impedance (Zvin)	—	500kΩ min. (650kΩ typ.)
Phase noise	-135dBc typ. at 1kHz offset (詳細 P.2 表2参照)		

上記以外の仕様をご希望の際は、別途当社営業窓口までお問い合わせ下さい。

■外形・寸法 [単位:mm]

Terminal	Connection	
	TCXO	VC-TCXO
#1	GND	Vcont
#2	GND	
#3	OUTPUT	
#4	Vcc	

Example of a Terminal Land Pattern

表1 TCXO 81, 83, 92series 位相雑音特性実力値 ※1)

T C X O TXO/VTX81,83,92 series						
Typical Phase Noise Performance						
Frequency [MHz]	Carrier Offset Frequency					
	1Hz	10Hz	100Hz	1kHz	10Hz	100kHz
10.0 to 12.5	-62	-90	-118	-139	-149	-152
12.5 to 15.0	-60	-89	-116	-138	-148	-152
15.0 to 17.5	-58	-88	-114	-137	-148	-151
17.5 to 20.0	-56	-87	-112	-136	-147	-151
20.0 to 22.5	-54	-86	-110	-135	-147	-151
22.5 to 25.0	-52	-84	-108	-134	-146	-150
25.0 to 27.5	-50	-82	-107	-133	-145	-150
27.5 to 30.0	-48	-80	-106	-132	-144	-150
30.0 to 32.5	-46	-78	-105	-131	-143	-149
32.5 to 35.0	-45	-76	-104	-130	-143	-149
35.0 to 37.5	-44	-74	-103	-129	-142	-149
37.5 to 40.0	-43	-72	-102	-128	-142	-148
40.0 to 42.5	-42	-70	-101	-127	-141	-148
42.5 to 45.0	-41	-68	-100	-126	-141	-148

Unit: dBc/Hz

製造Lotにより、 ± 3 dBc/程度のばらつきがあるものとご理解下さい。また、3225size TCXO 92seriesの16MHz以下周波数帯については開発周波数の関係により、分周対応を行う場合がありますので、上記実力値表に沿わない場合があります。