

# Voltage Controlled Oscillator

# JTOS-1300+

## Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ OFFSET (KHz)	PHASE NOISE (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F2	F3	F4			
0.0	45.6	723.0	713.8	705.4	9.0	8.8	8.1	-25.3	-52.3	-59.6	0.1	1	-73
1.0	41.4	770.3	759.5	750.7	9.4	9.4	9.1	-22.1	-46.7	-49.4	0.3	10	-100
2.0	43.1	812.3	800.8	792.7	9.2	9.3	9.1	-20.2	-45.7	-43.5	0.3	100	-121
3.0	42.4	856.0	843.9	835.2	9.2	9.1	8.7	-20.0	-48.4	-41.0	0.3	1000	-141
4.0	43.8	898.4	886.4	878.4	8.8	8.7	8.4	-22.4	-55.0	-37.7	0.4		
5.0	45.8	940.7	930.1	922.8	8.4	8.2	8.0	-24.3	-58.0	-41.1	0.3		
6.0	46.3	985.3	975.9	968.9	8.1	7.6	7.2	-23.7	-47.2	-47.7	0.3		
7.0	49.8	1030.8	1022.3	1015.7	7.3	6.9	6.7	-28.8	-38.6	-51.0	0.2		
8.0	50.2	1080.1	1072.0	1065.4	6.6	6.2	6.1	-34.1	-31.9	-52.6	0.3		
9.0	50.4	1130.8	1122.2	1115.2	5.9	5.8	5.7	-29.2	-26.4	-51.9	0.4		
10.0	47.8	1182.0	1172.7	1165.1	5.6	5.6	5.5	-26.9	-20.8	-49.0	0.5		
11.0	43.9	1230.1	1220.4	1212.2	6.0	5.9	5.7	-27.3	-21.0	-49.6	0.7		
12.0	42.2	1275.5	1264.4	1255.3	5.9	6.0	6.0	-27.9	-25.0	-44.8	1.0		
13.0	35.2	1317.4	1306.6	1297.3	6.4	6.4	6.2	-28.4	-26.3	-40.2	1.2		
14.0	34.9	1352.7	1341.8	1332.9	6.3	6.7	6.7	-31.6	-26.7	-37.0	1.2		
15.0	28.7	1388.6	1376.7	1367.1	6.6	6.7	6.5	-34.8	-26.4	-35.4	1.4		
16.0	26.1	1416.4	1405.4	1397.3	6.7	7.0	6.9	-35.2	-26.4	-33.2	1.3		
17.0	24.6	1443.1	1431.5	1422.7	6.5	6.9	6.8	-42.3	-26.0	-31.4	1.3		
18.0	21.2	1468.6	1456.1	1446.8	6.4	6.7	6.6	-36.0	-25.7	-30.6	1.3		
19.0	18.0	1489.8	1477.3	1468.5	6.5	6.6	6.5	-31.5	-26.2	-27.9	1.1		
20.0	17.3	1508.0	1495.2	1486.6	6.2	6.4	6.3	-31.2	-27.0	-27.0	0.9		
21.0	15.9	1525.6	1512.5	1503.3	5.8	5.8	5.8	-26.7	-27.8	-26.7	0.7		
22.0	15.9	1540.9	1528.4	1519.5	5.7	5.4	5.3	-25.1	-28.0	-26.1	0.5		

**Notes**

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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