

FREE RUNNING DIELECTRIC RESONATOR OSCILLATORS - FRDRO Series

FEATURES

- Low Phase Noise, Wide Frequency Range 1GHz to 18GHz
- Excellent Vibration Resistance and Shock Resistance
- Storage Temperature Range: -55 to 90°C
- Compact Size, Low Cost, Customized Design Available

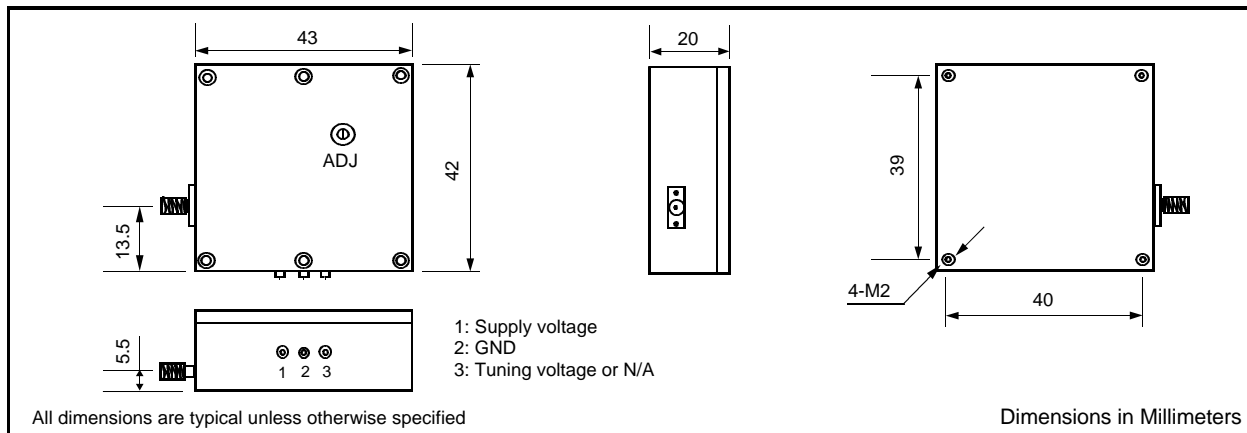
SPECIFICATIONS

Parameter (Unit)	DRO0102	DRO0204	DRO0408	DRO0811	DRO1113	DRO1315	DRO1518
Frequency (GHz)	1 - 2	2 - 4	4 - 8	8 - 11	11 - 13	13 - 15	15 - 18
Power (dBm)	10 - 12	10 - 12	10 - 12	10 - 12	10 - 12	9 - 12	8 - 11
Phase Noise (1Hz BW)							
@ 10KHz (dBc/Hz)	-100	-95	-90	-87	-85	-83	-80
@ 100KHz (dBc/Hz)	-115	-110	-110	-110	-105	-105	-105
@ 1MHz (dBc/Hz)	-135	-135	-130	-130	-125	-120	-120
Mechanical tuning (MHz)	±50	±50	±50	±50	±50	±50	±50
Electrical tuning (MHz)	±5	±5	±5	±5	±5	±5	±5
Electrical tuning voltage (V)	0 - 12	0 - 12	0 - 12	0 - 12	0 - 12	0 - 12	0 - 12
Harmonics (dBc)	-25	-25	-25	-25	-25	-25	-25
Spurious (dBc)	-75	-75	-75	-75	-75	-75	-75
Load pulling (KHz)	±10	±10	±10	±10	±10	±10	±10
Temp. stability (ppm/°C,±1dB)	±2.5	±2.5	±2.5	±2.5	±2.5	±2.5	±2.5
Supply voltage (V)	5, 12 - 15	5, 12 - 15	5, 12 - 15	5, 12 - 15	5, 12 - 15	5, 12 - 15	5, 12 - 15
Supply current (mA) Max	70	70	70	70	70	70	70
Operation Temp. range (°C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Case Style	D1	D1	D1	D2, D3	D2, D3	D2, D3	D2, D3

Typical Part Number FRDRO - Frequency Range - Case Style- Other - Norminal Frequency (MHz)

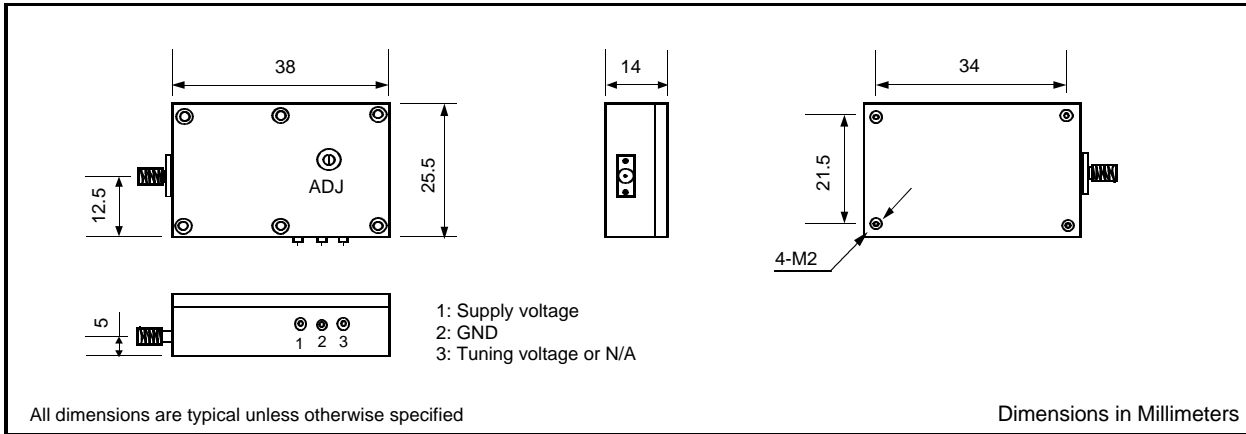
P/N Example FRDRO0811-D2-9500MHZ: Model DRO0811, D2 package, 9500MHz

OUTLINE DRAWING D1



Microwave Dielectric Resonator Oscillators

OUTLINE DRAWING D2



OUTLINE DRAWING D3

