

Voltage Controlled Oscillator

RS0833AM

Ultra Low Noise 818 to 847 MHz

Rev. A

Features

- Ultra low noise
- Linear tuning characteristics
- Low pushing / Low pulling

Applications

- Base station
- Cable TV
- Satellite Communications
- UHF radio link

Electrical Characteristics



Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	818		847
Output Power	dBm		+6.0	
Output Impedance	Ω		50	
Phase Noise @10kHz offset	dBc/Hz		-120	
@100kHz offset	dBc/Hz		-140	
Tuning Voltage (Vt)	Vdc	+1		+12
Tuning Voltage Sensitivity (Kv)	MHz/V		5.5	
2nd Harmonic Suppression	dBc		-15	
Power Supply (Vcc) Voltage	Vdc		7	
Current	mA		30	
Pushing Figure	MHz/V		0.1	
Pulling Figure	MHz		0.3	
Input Capacitance	pF		47	
Operating Temp. Range	°C	-40		+85

Dimensions

