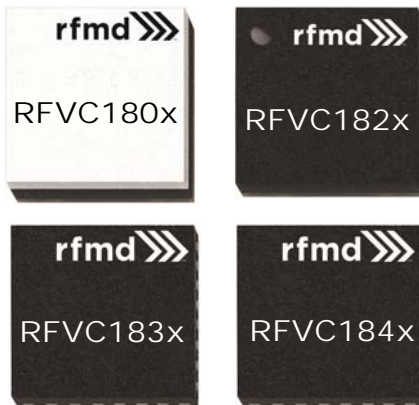


# MMIC VCO Series




The RFMD RFVC18xx series is a family of voltage-controlled oscillators (VCOs) based on GaAs InGaP MMIC technology. The monolithic structure of the VCO ensures excellent temperature, shock, and vibration performance. With both broadband and narrowband options available, VCOs in this series are capable of operation ranging from 4GHz through 15GHz. Typical applications include point-to-point radio, military, satellite communications, test instrumentation, industrial and medical, aerospace, and CATV. All products in the family operate from a single positive supply voltage and deliver low phase noise performance with minimum power consumption. Each VCO comes in a compact, RoHS compliant QFN package.

## Narrowband MMIC VCOs with Integrated Fo/2, Fo/4 Divider

Freq (Min) (MHz)	Freq (Max) (MHz)	V <sub>TUNE</sub> (V)	Typ. Phase Noise (dBc/Hz at 10kHz)	Typ. Phase Noise (dBc/Hz at 100kHz)	V <sub>CC</sub> (V)	P <sub>OUT</sub> (dBm)	Part Number
7300	8200	2.0 to 12.0	-91	-115	5.0	10.0	RFVC1831
7900	8800	2.0 to 12.0	-90	-115	5.0	9.0	RFVC1832
8400	9600	2.0 to 12.0	-90	-114	5.0	8.0	RFVC1833
9000	10200	2.0 to 12.0	-90	-114	5.0	9.0	RFVC1834
9600	10800	2.0 to 12.0	-88	-114	5.0	8.0	RFVC1835
10400	11620	2.0 to 12.0	-89	-113	5.0	8.0	RFVC1836
11100	12500	2.0 to 12.0	-88	-113	5.0	8.0	RFVC1837
11570	12700	2.0 to 12.0	-87	-113	5.0	8.0	RFVC1838
11400	12620	2.0 to 12.0	-87	-113	5.0	8.0	RFVC1838B
12440	13760	2.0 to 12.0	-87	-112	5.0	8.0	RFVC1839
13600	14900	2.0 to 12.0	-84	-110	5.0	7.0	RFVC1840
9300	10700	2.0 to 12.0	-90	-115	5.0	8.0	RFVC1842
9800	11300	2.0 to 12.0	-90	-114	5.0	7.0	RFVC1843
10800	12100	2.0 to 12.0	-88	-113	5.0	7.0	RFVC1844
12900	14100	2.0 to 12.0	-84	-109	5.0	7.0	RFVC1849

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 These products comply with RFMD's green packaging standards.  
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### Broadband MMIC VCOs with Integrated RF Output Buffer

Freq (Min) (MHz)	Freq (Max) (MHz)	V <sub>TUNE</sub> (V)	Typ. Phase Noise (dBc/Hz at 10kHz)	Typ. Phase Noise (dBc/Hz at 100kHz)	V <sub>CC</sub> (V)	I <sub>D</sub> (mA)	P <sub>OUT</sub> (dBm)	Part Number
8000	12000	0.0 to 13.0	-66	-93	5.0	55	4.0	RFVC1800
5000	10000	0.0 to 18.0	-72	-96	5.0	52	3.0	RFVC1801
4000	8000	0.0 to 18.0	-74	-99	5.0	53	4.0	RFVC1802
6000	9000	0.0 to 15.0	-73	-97	5.0	53	3.5	RFVC1803

### Narrowband MMIC VCOs with Integrated RF Output Buffer

Freq (Min) (MHz)	Freq (Max) (MHz)	V <sub>TUNE</sub> (V)	Typ. Phase Noise (dBc/Hz at 10kHz)	Typ. Phase Noise (dBc/Hz at 100kHz)	V <sub>CC</sub> (V)	I <sub>D</sub> (mA)	P <sub>OUT</sub> (dBm)	Part Number
4450	5200	1.5 to 14.5	-84	-108	3.0	43	8.0	RFVC1821
5000	5500	0.0 to 12.0	-80	-103	3.0	45	9.0	RFVC1822
6100	6750	0.0 to 10.0	-76	-101	3.0	37	8.0	RFVC1823
7200	8300	1.5 to 14.0	-80	-106	3.0	65	12.0	RFVC1824
7800	8700	0.0 to 12.0	-80	-107	3.0	67	11.0	RFVC1825
6800	7400	0.0 to 12.0	-80	-103	3.0	70	12.0	RFVC1829

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