

Oscillators



Plug-in

Broadband Voltage Controlled Oscillators 2 to 18GHz

P/	Freq. Range (GHz)	Tuning Voltage (V)	Power Supply (V/mA)	Phase Noise @100KHz (dBc/Hz)	Harmonics (dBc)	Spurious (dBc)	Operating Temperature (°C)	Storage Temperature (°C)	Power Output (dBm)	Power Output Flatness (dBm)	Settling Time (μs)	Case
ZD2040	2 - 4	0 - +20	+15/100	-95	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1,V5
ZD3570	3.5-7	0 - +20	+15/100	-95	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1,V5
ZD4060	4 - 6	0 - +18	+15/200	-85	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1, V5
ZD4080	4 - 8	0 - +20	+15/200	-85	<-12	-	-55 - +85	-60 - +90	10	±2.5	1	V1, V5
ZD6080	6 - 8	0 - +18	+15/200	-85	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1, V5
ZD6090	6 - 9	0 - +20	+15/200	-85	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1, V5
ZD7090	7 - 9	0 - +18	+15/200	-85	<-12	-	-55 - +85	-60 - +90	10	±2	1	V1, V5
ZD80100	8 - 10	0 - +18	+15/200	-70	<-15	-	-55 - +85	-60 - +90	10	±2	1	V
ZD80120	8 - 12	0 - +25	+15/300	-70	<-15	-	-55 - +70	-60 - +90	10	±2.5	1	V
ZD100120	10 - 12	0 - +18	+15/200	-70	<-20	-	-55 - +70	-60 - +90	10	±2	1	V
ZD120150	12 - 15	0 - +20	+15/200	-70	<-20	-	-55 - +70	-60 - +90	10	±2	1	V
ZD120180	12 - 18	0 - +25	+15/300	-70	<-20	-	-55 - +70	-60 - +90	10	±2.5	1	V
ZD150180	15 - 18	0 - +20	+15/200	-70	<-20	-	-55 - +70	-60 - +90	10	±2	1	V

Commercial Narrowband Voltage Controlled Oscillators 0.6 to 10.5GHz

P/N	Freq. Range (GHz)	Power Output (dBm)	Power Output Flatness @25°C (dBm)	Operating Temperature (°C)	Storage Temperature (°C)	Harmonics (dBc)	Spurious (dBc)	Tuning Voltage (V)	Tuning Port Capacitor (pF)	Phase Noise @100KHz (dBc/Hz)	Power Supply (V/mA)	Linearity	Case
ZC8060	0.6 - 1	10	± 2.0	0 - +70	-60 - +90	-	-60	0 - +20	50	-117	+15/50	-	V1,V5
ZC8080	0.8 - 1.4	10	± 2.0	0 - +70	-60 - +90	-	-60	0 - +20	50	-107	+15/50	-	V1,V5
ZC8090	0.9 - 1.6	10	± 2.0	0 - +70	-60 - +90	-	-60	0 - +20	50	-107	+15/50	-	V1,V5
ZC8150	1.5 - 2.5	10	± 2.0	0 - +70	-60 - +90	-	-60	0 - +20	50	-95	+15/200	-	V1,V5
ZC8200	2 -	10	± 2.0	0 - +70	-60 - +90	-	-60	0 - +20	50	-95	+15/200	-	V1,V5
ZC8240	2.4 - 3.7	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-95	+15/200	-	V1,V5
ZC8360	3.6 - 4.3	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-90	+15/200	-	V1,V5
ZC8430	4.3 - 5.8	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-90	+15/200	-	V1,V5
ZC8580	5.8 - 6.6	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-85	+15/200	-	V1,V5
ZC8650	6.5 - 8.6	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-80	+15/300	-	V1,V5
ZC8810	8.1 - 9.1	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-75	+15/300	-	V1,V5
ZC8900	8.5 - 9.6	10	± 2.0	0 - +70	-60 - +90	-15	-60	0 - +20	50	-75	+15/300	-	V1,V5
ZC8910	9.5 - 10.5	10	± 2.0	0 - +70	-60 - +90	-20	-60	0 - +20	50	-75	+15/300	-	V1,V5

Notes:

1. All specifications are guaranteed at -0 °C to +70 °C temperature range.
2. Temperature range -55 °C to +85 °C are available upon request.
3. Custom Designs Available