Panasonic Voltage Controlled Oscillators（VCO）

Type : **VJ3,VK1,VK3,VH2, VJ1 ,VF1**

Part No : **ENFV _ _ _ _ _ _ _**

■ Features

- Small size and thin shape design by development of high density substrate design technology and mounting technology
- High performance is secured by low current consumption
- Band selection Devices
- The range of the frequency is covered from 700MHz to 5GHz belt

■ Recommended Applications

- Digital / analog cellular systems
- WLAN

■ Performance Specifications, Summary

（Single band type）

Application	Series	Oscillator Frequency (MHz)	Supply Voltage	Current Consumption (max.)	Output Level (typ.)	Control Voltage range	Control Sensitivity (typ.)
PDC800	VJ3	680 to 768	2.6 V	5.0 mA max.	−2.0 dBm	0.6V to 2.4V	61MHz / V
PDC800	VK1	696 to 771	2.7 V	4.9 mA max.	−2.0 dBm	0.8V to 2.3V	63MHz / V
PDC1.5G	VK1	1540 to 1564	2.4 V	4.3 mA max.	−5.0 dBm	0.7V to 2.1V	35MHz / V
PDC1.5G	VK3	1540 to 1564	2.4 V	4.3 mA max.	−5.0 dBm	0.7V to 2.1V	35MHz / V
J-CDMA	VK1	1442 to 1524	2.7 V	5.6 mA max.	−3.5 dBm	0.6V to 2.3V	65MHz / V
US-CDMA	VJ3	1715 to 1788	2.8 V	10.0 mA max.	−2.0 dBm	0.4V to 2.3V	50MHz / V
US-CDMA	VK1	1715 to 1788	2.8 V	11.0 mA max.	−2.0 dBm	0.4V to 2.3V	50MHz / V

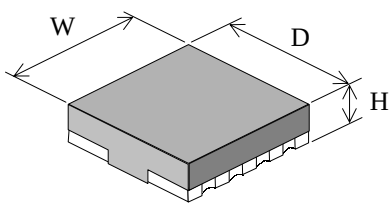
※Power-supply voltage : from Vcc=2.3V.

（Dual band type）

Application	Series	Oscillator Frequency-2 (MHz)	Oscillator Frequency-1 (MHz)	Supply Voltage	Current Consumption (max.)	Output Level (typ.)	Control Voltage range	Control Sensitivity -1 (typ.)	Control Sensitivity -2 (typ.)
GSM / DSC / UMTS	VJ3MRD	1353 to 1464	1688 to 1788	2.8 V	10 mA max.	−2.0 dBm	0.4V to 2.3V	70MHz / V	60MHz / V
PDC800 / 1.5G Dual	VJ3MRD	696 to 771	1590 to 1660	2.7 V	7 mA max.	−2.5 dBm	0.6V to 2.4V	56MHz / V	60MHz / V
GSM / DSC / PCS	VH2MRD	824 to 915	1710 to 1910	2.8 V	20 mA max.	7.0 dBm	0.5V to 2.2V	75MHz / V	160MHz / V

※ Power-supply voltage : from Vcc=2.3V.

■ Dimensions in mm（not to scale）



(typ.)

Dimensions / Series	W	D	H
VJ3	5.5	4.8	1.6
VK1	5.0	4.0	1.6
VK3	4.5	3.4	1.6
VH2	7.8	6.0	1.6
VJ1	6.5	5.5	1.6
VF1	9.0	7.0	1.8