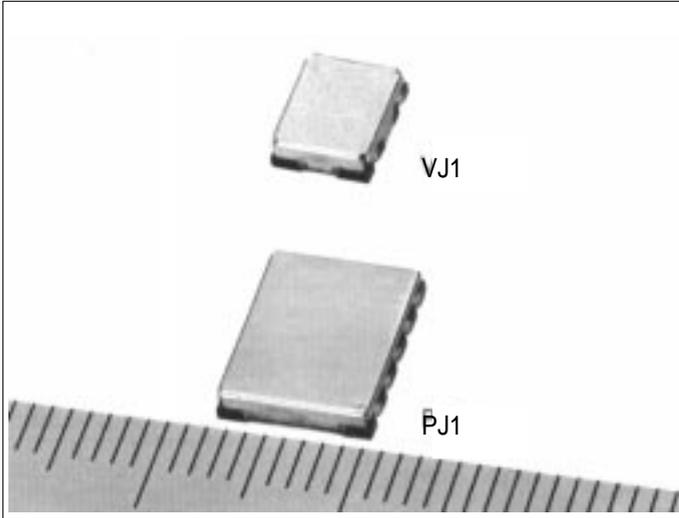


*Using breakthrough technology,
we aim for products that will create new markets.*

New Product News

Expansion of line of products

**While maintaining high performance and reliability,
an ultra-small size has been achieved.**



Voltage Controlled Oscillators / PLL Synthesizer Modules

Series J (VJ1, PJ1)

Industry/Field: **Mobile communications**

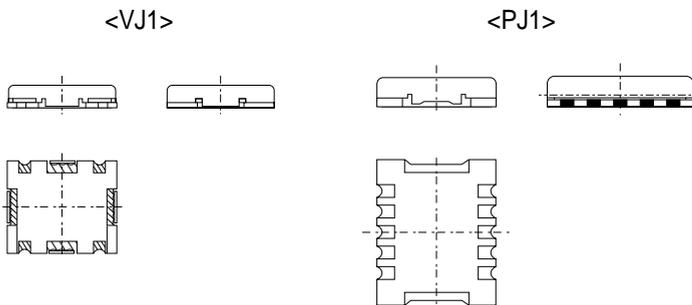
• **Development goals:**

- Contribution to small size of handheld terminal set
- Size reduction of not only VCO but PLL module
<To meet various demands>

• **Features:**

- 1** Ultra-small size with high level C/N characteristics (VJ1)
- 2** Max.1.95mm high : the smallest in the industry (PJ1)
- 3** Latest technology to achieve both high performance and small size

• **Structure/external appearance:**



• **Characteristics/specifications:**

Performance specifications

Item	PHS	
	Unit	Value
1. Oscillator Frequency	MHz	1651.2~1684.8
2. Output level	dBm	-3±3
3. Control Voltage	V	0.5~2.5
4. C/N Ratio	dBc/Hz	130*
5. Current Consumption	mA	6
6. Supply Voltage	V	2.3

*C/N...600kHz off set

Item	PDC1500	
	Unit	Value
1. Oscillator Frequency	MHz	1607~1631
2. Output Level	dBm	-3±3
3. C/N Ratio	dBc/Hz	-114 typ.*
4. Lock Up Time	ms	1.5 typ.
5. Current Consumption	mA	13 max.
6. Supply Voltage	V	(VCO) 2.3 (PLL) 3.0

*C/N...100kHz off set, 1Hz BW

• **Applications/usage examples:**

- Cellular telephone
- Cordless telephone
- Other mobile communications equipment

• **Explanation of part numbers:**

