

VCO (Voltage Controlled Oscillator) IM series



Features

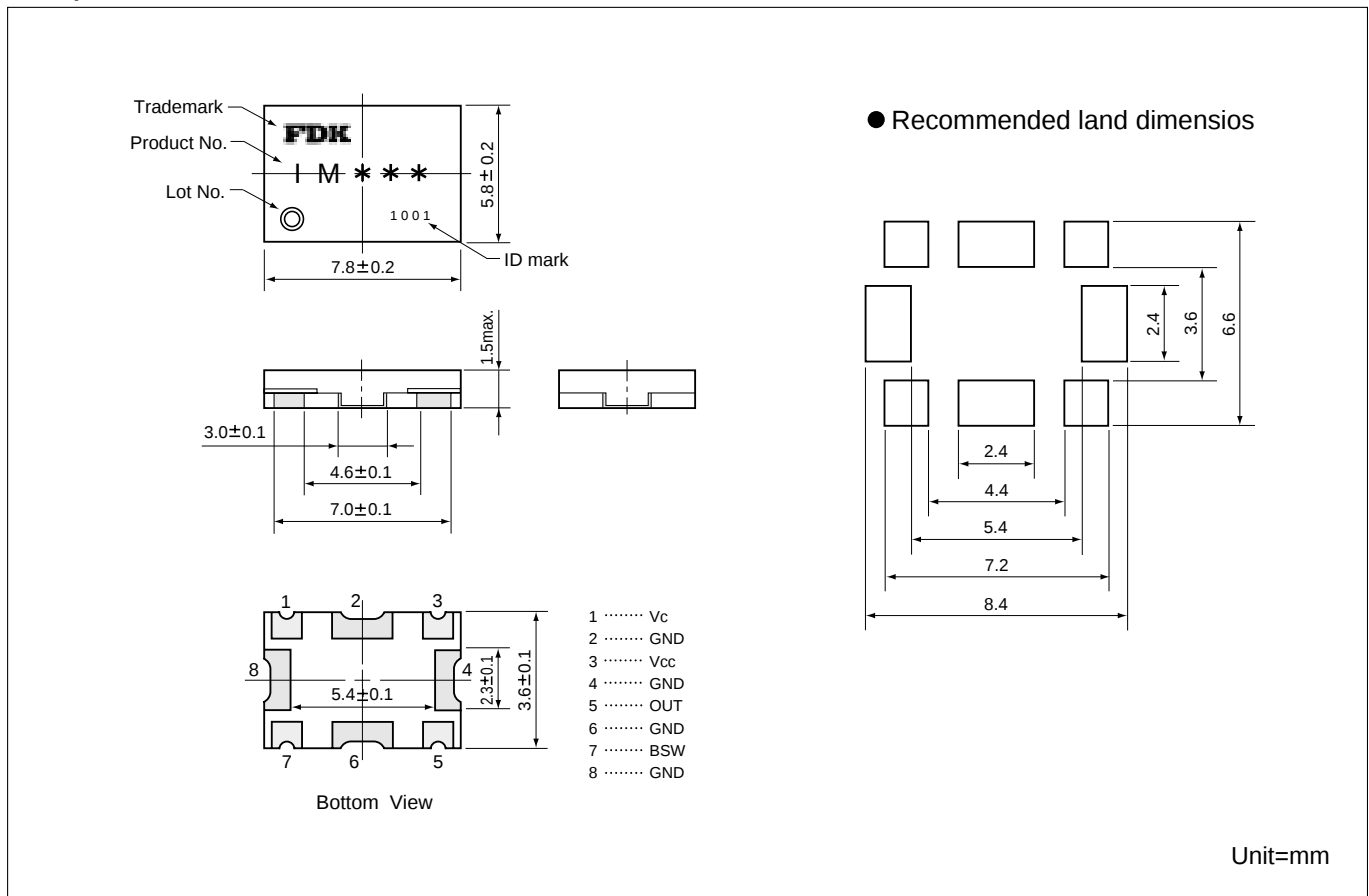
- Size : 7.8×5.8×1.7mm
- Low-cost strip line resonator
- Oscillation frequency : 700-4,000 MHz
- Oscillation frequency shift compatible
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

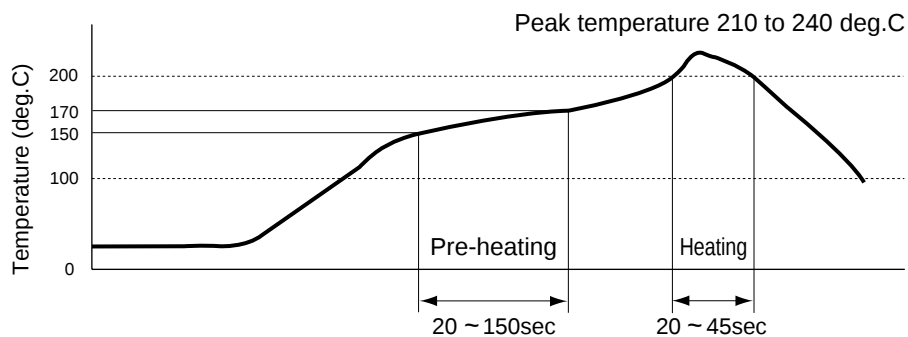
Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
GSM/DCS	IM * * *	1327.0±42 1482.5±37	2.9	0.5~2.4	70.0±10.0 65.0±10.0	10.0	- 7.0	120(600kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions



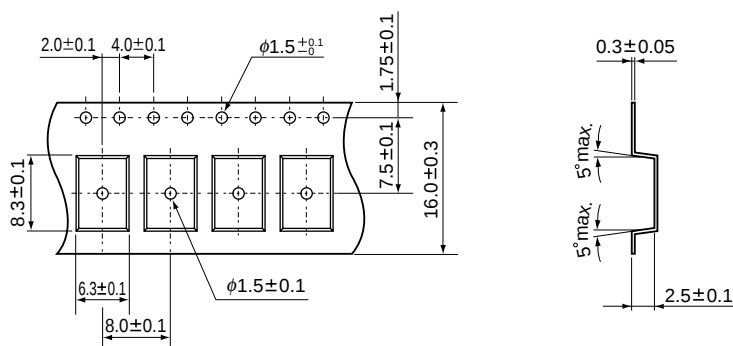
Recommended reflow temperature profile



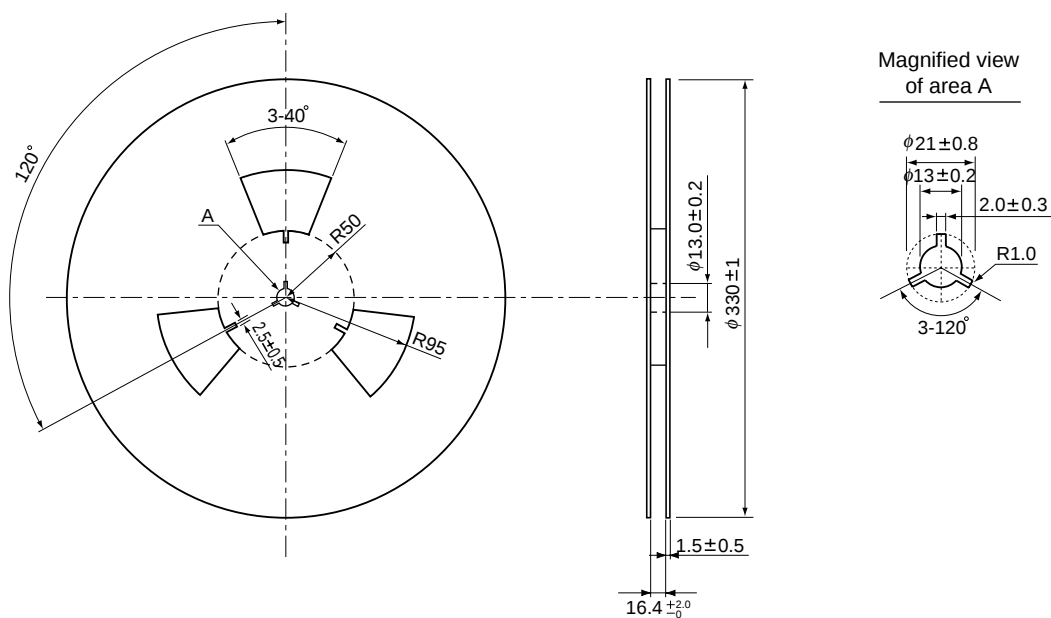
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 3,000 VCOs)

• Embossed carrier tape dimensions



• Reel dimensions



Unit = mm



VCO (Voltage Controlled Oscillator) IN series



Features

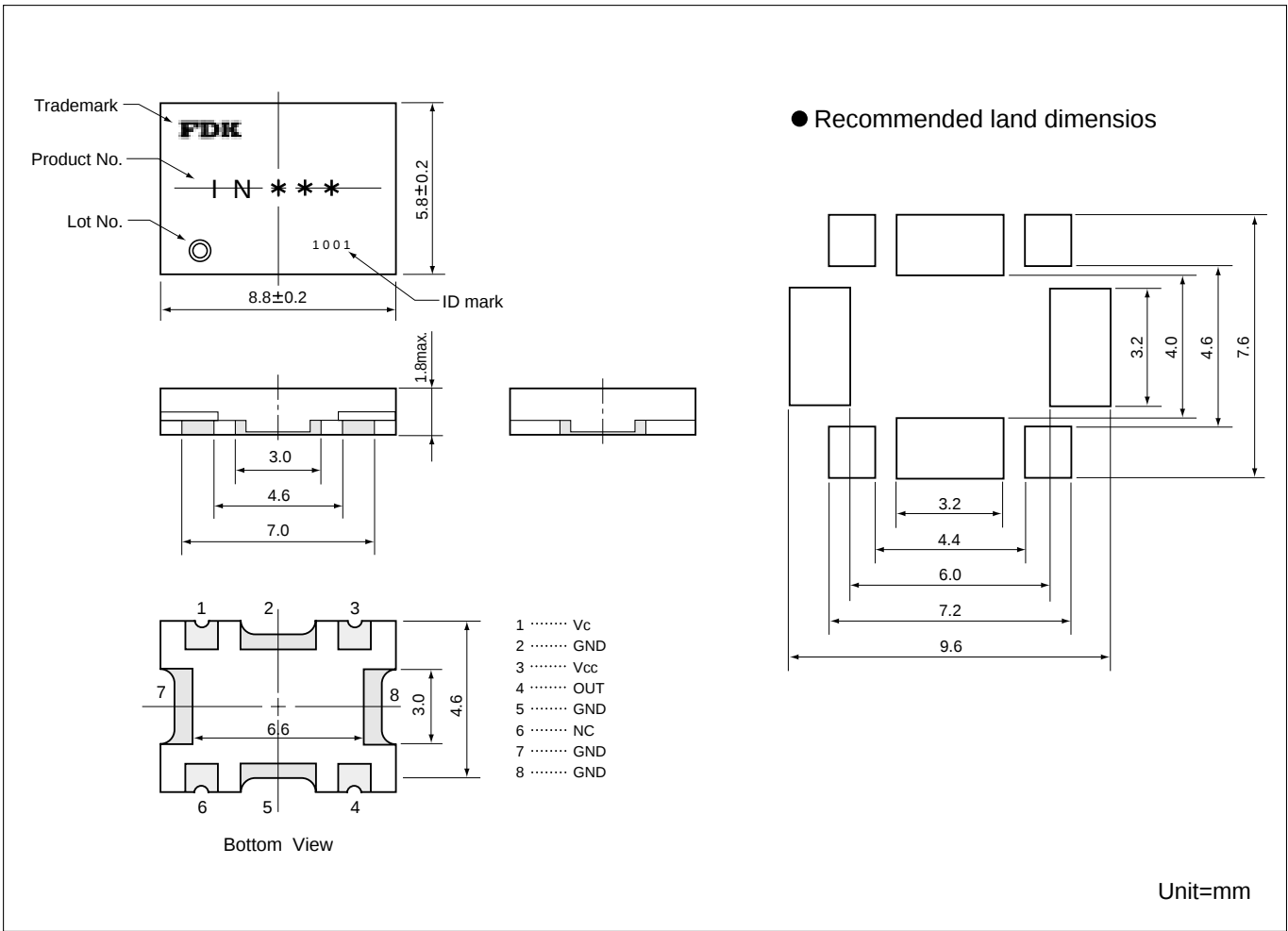
- Size : 8.8×6.8×1.7mm
- Low-cost strip line resonator
- Oscillation frequency : 700-4,000 MHz
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

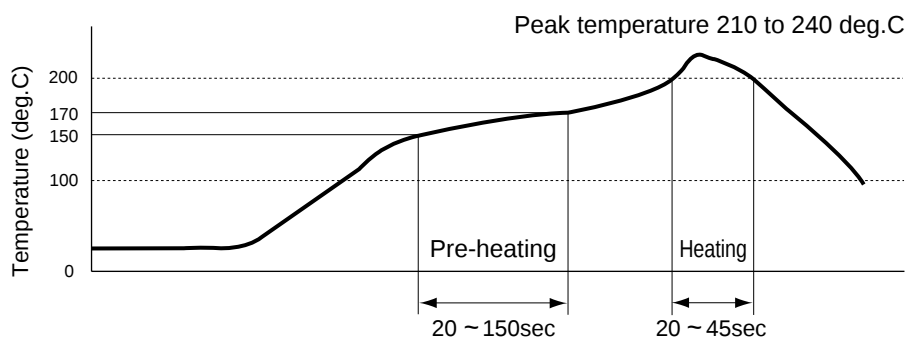
Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
PHS	IN * * *	1660.5±10	3.0	0.5~2.5	20.0±5.0	8.0	- 6.0	120(600kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions



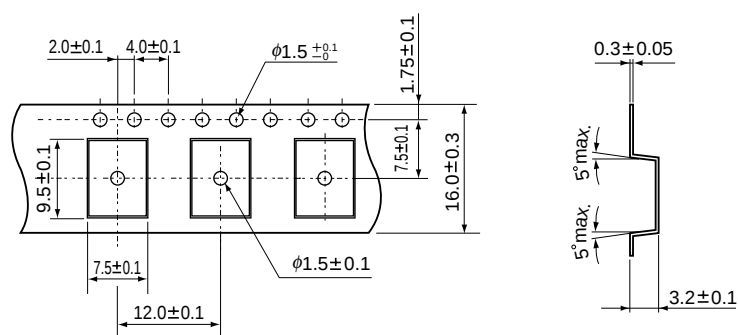
Recommended reflow temperature profile



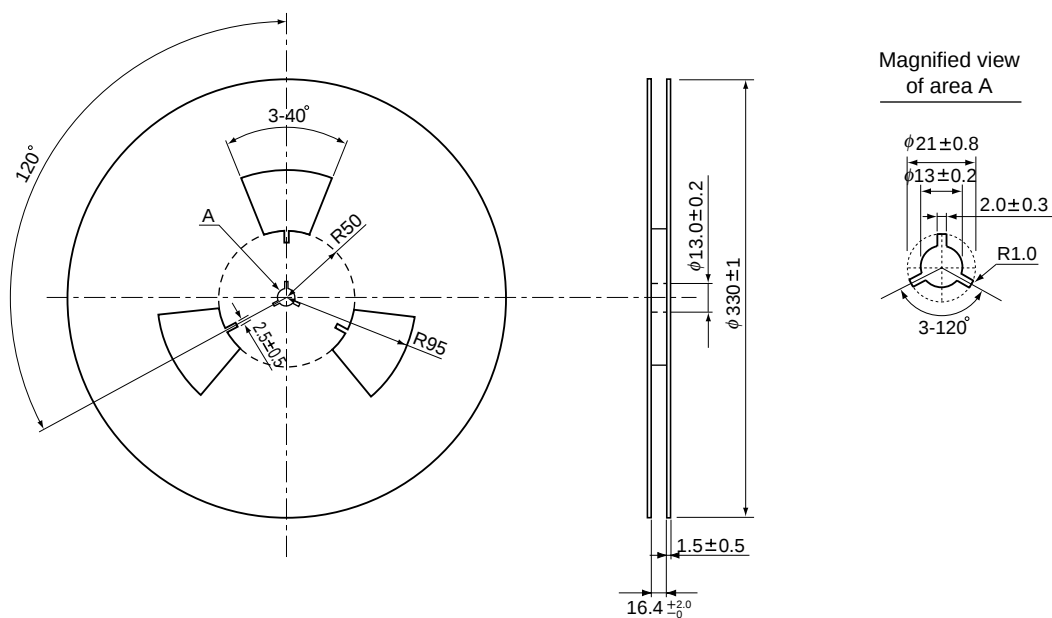
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 1,000 VCOs)

• Embossed carrier tape dimensions



• Reel dimensions



Unit = mm



VCO (Voltage Controlled Oscillator) IP series



Features

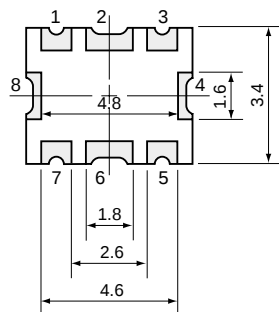
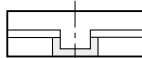
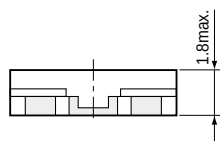
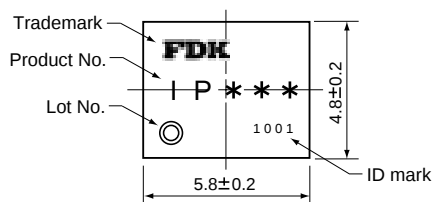
- Size : 5.8×4.8×1.7mm
- Low-cost strip line resonator
- Oscillation frequency : 800-2,500 MHz
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
PHS	IP * * *	1656.0±27	3.0	0.5~2.4	44.0±8.0	10.0	- 4.0	123(600kHz)/1Hz

For specification details, please contact us.

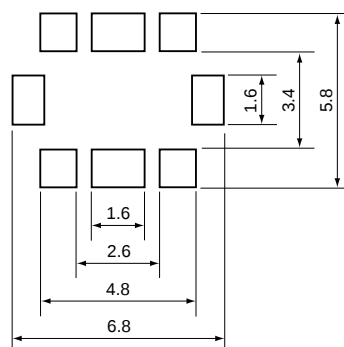
Shapes and dimensions / Recommended land dimensions



Bottom View

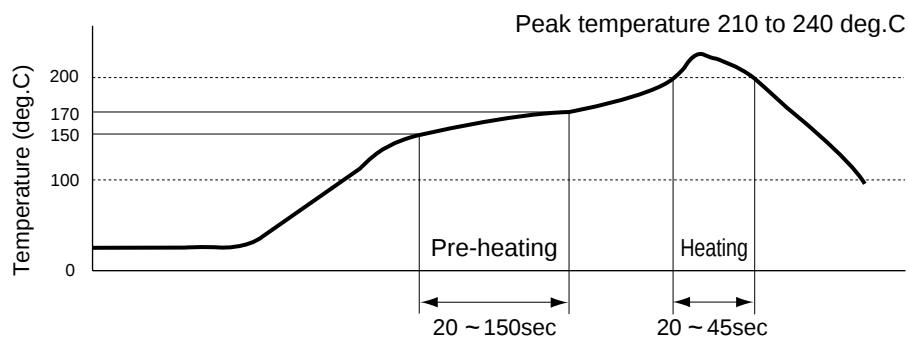
- 1 Vc
- 2 GND
- 3 Vcc
- 4 GND
- 5 OUT
- 6 GND
- 7 GND
- 8 GND

● Recommended land dimensions



Unit=mm

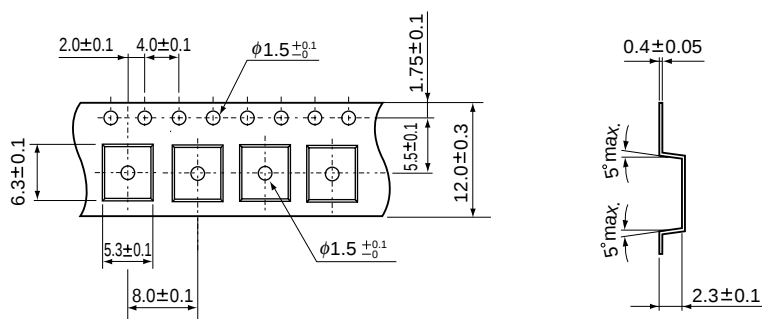
Recommended reflow temperature profile



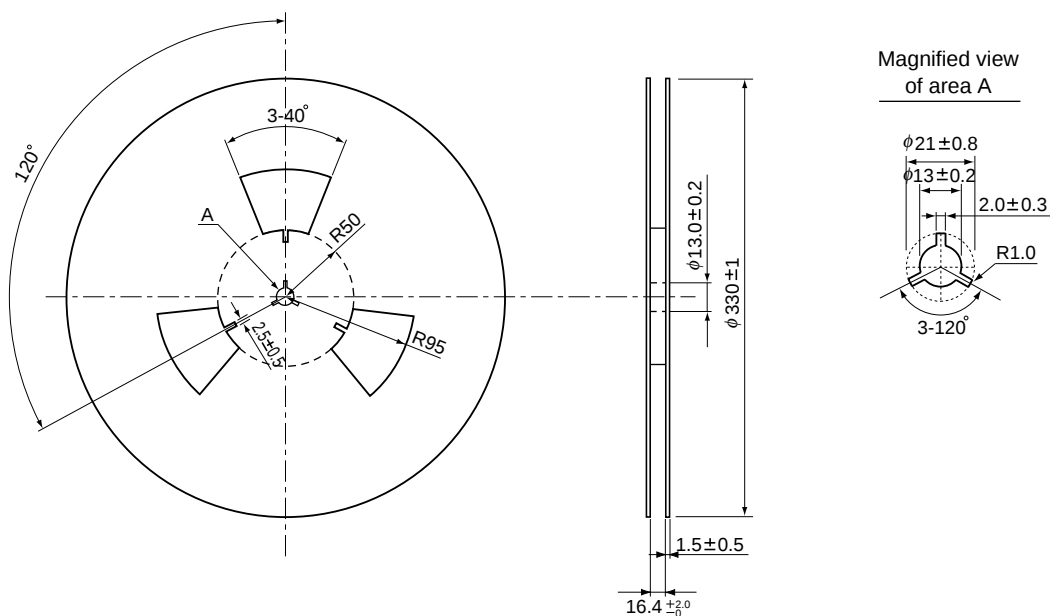
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 3,000 VCOs)

• Embossed carrier tape dimensions



• Reel dimensions



Unit = mm



VCO (Voltage Controlled Oscillator) IR series



Features

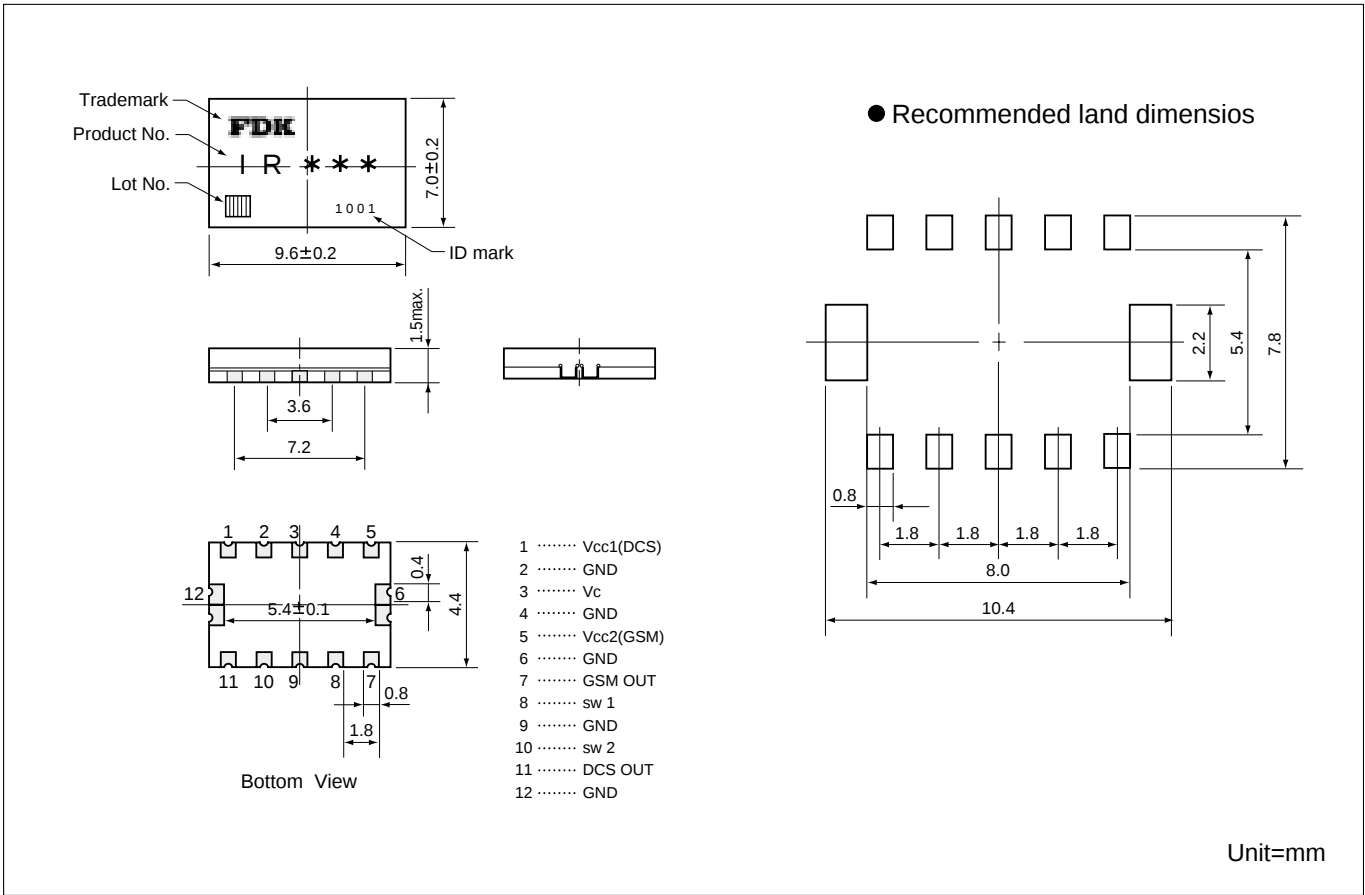
- Size : 9.8×7.0×1.7mm
- Low-cost strip line resonator
- Oscillation frequency : 800-2,000 MHz
- Dual VCO compatibility
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

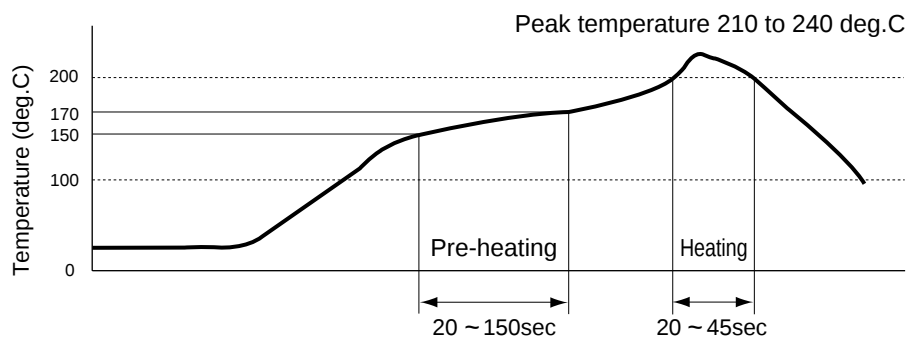
Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
GSM/DCS	IR * * *	897.5±17.5 1747.5±37.5	2.85	0.5~2.2	33.0±5.0 69.0±13.0	20.0 27.0	+ 5.0 + 5.0	164(20000kHz)/1Hz 158(20000kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions



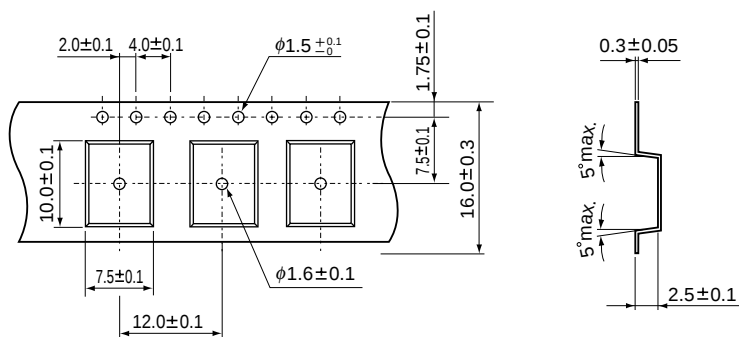
Recommended reflow temperature profile



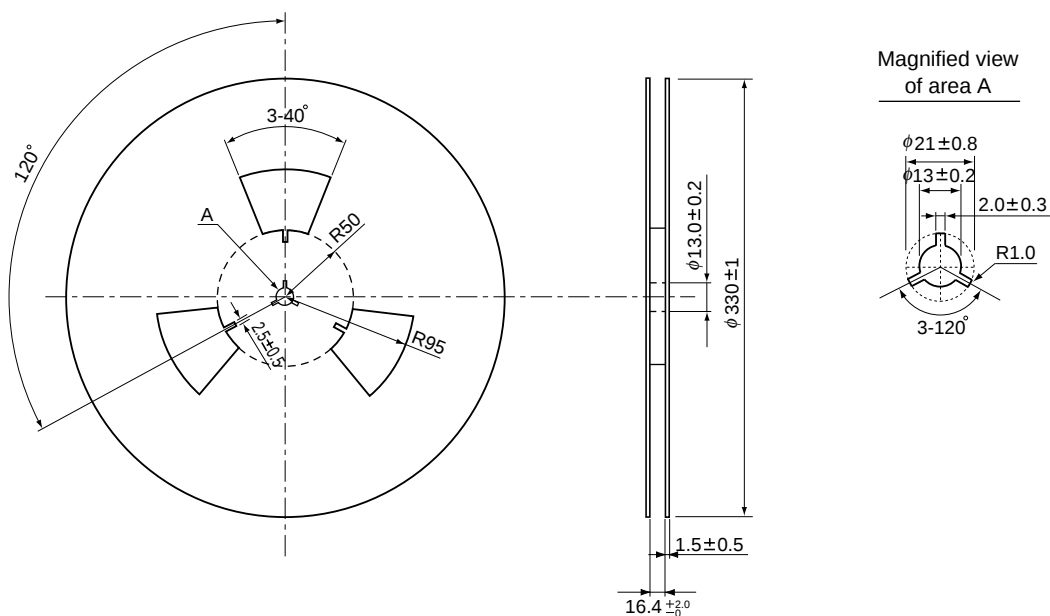
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 1,000 VCOs)

• Embossed carrier tape dimensions



• Reel dimensions



Unit = mm



VCO (Voltage Controlled Oscillator) IT series



Features

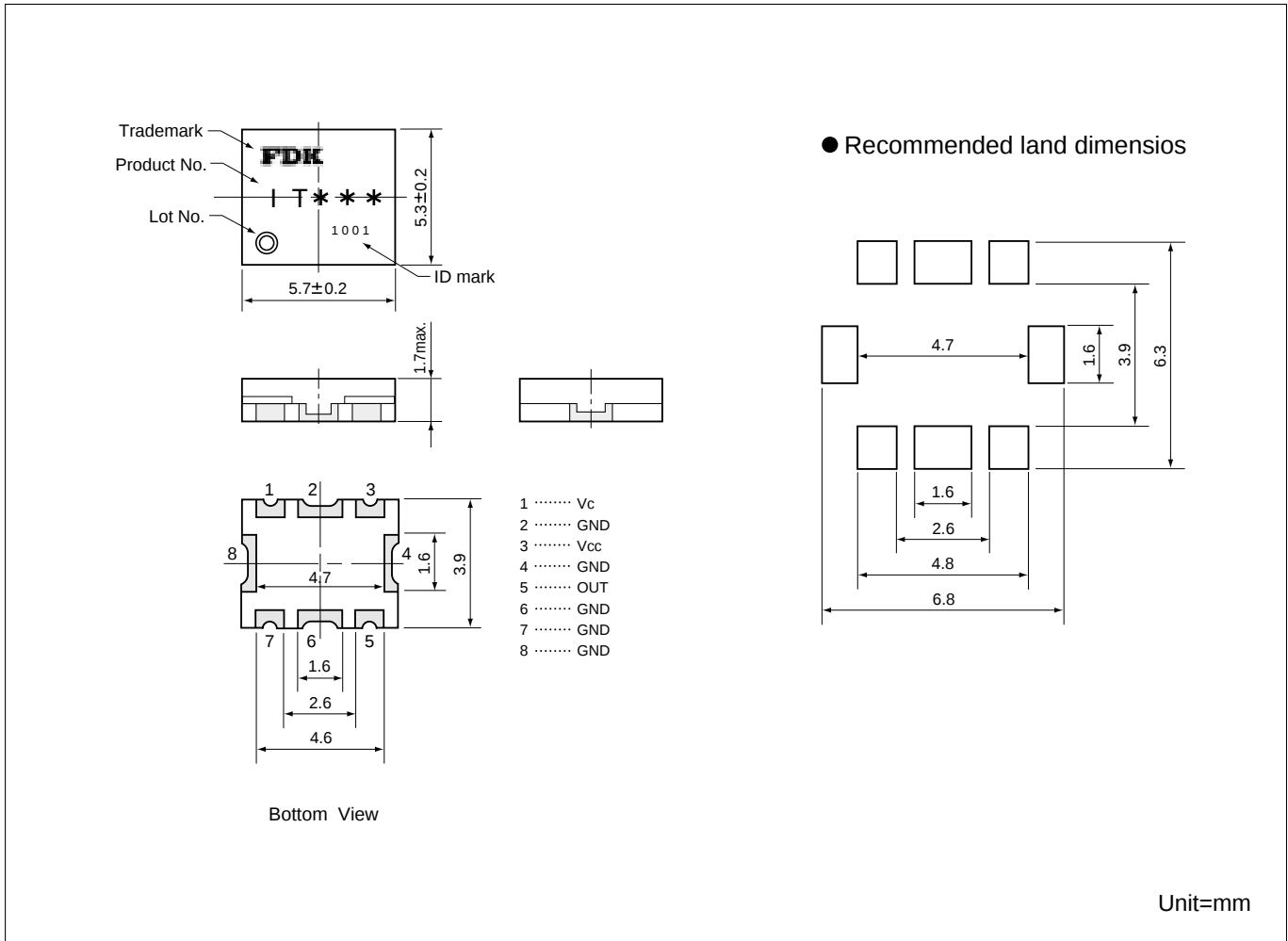
- Size : 5.7×5.3×1.7mm
- Low-cost strip line resonator
- Oscillation frequency : 1,000-4,500 MHz
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

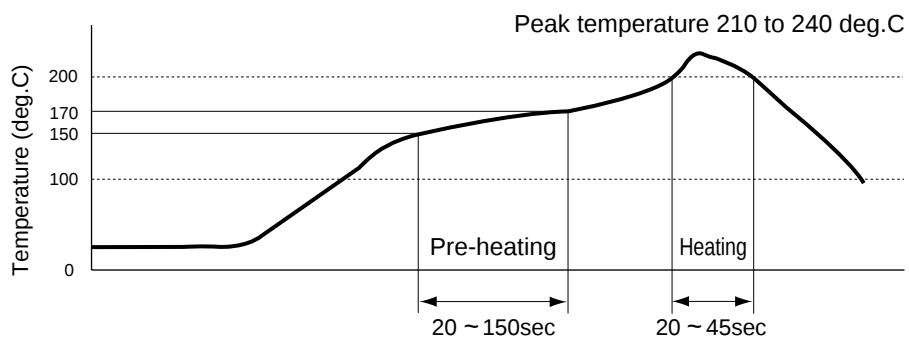
Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
GSM/DCS	IT * * *	3780.0±200	2.75	0.5~2.2	290.0±40.0	20.0	-4.0	135(3000kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions



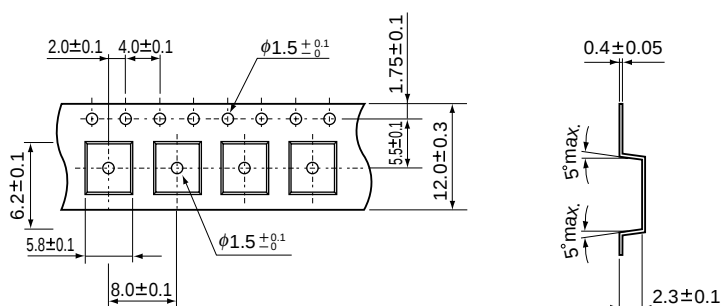
Recommended reflow temperature profile



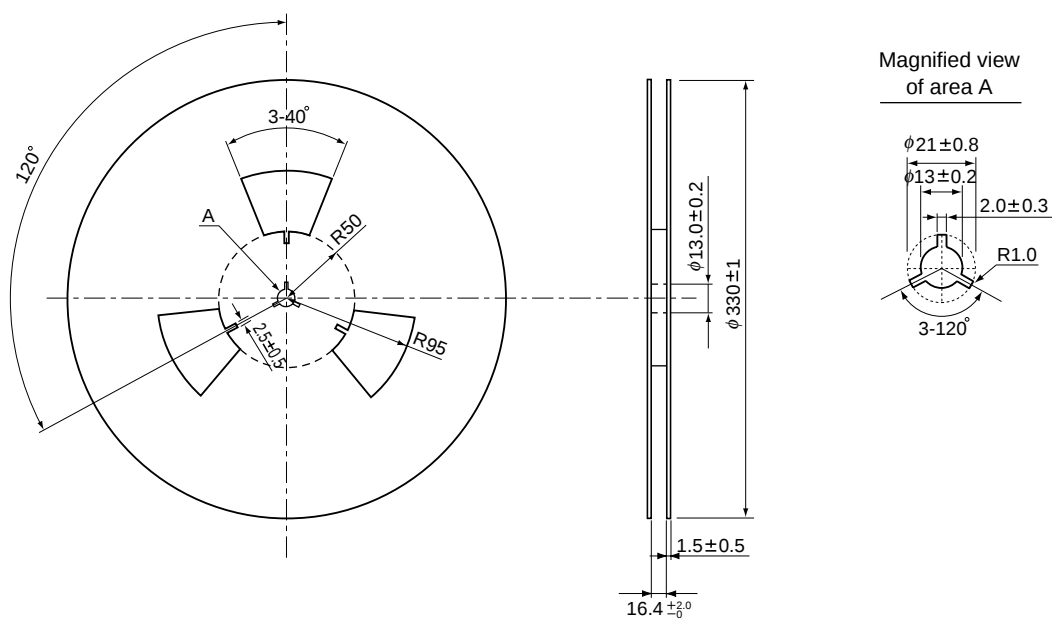
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 3,000 VCOs)

• Embossed carrier tape dimensions



• Reel dimensions



Unit = mm

VCO (Voltage Controlled Oscillator) IU series



Features

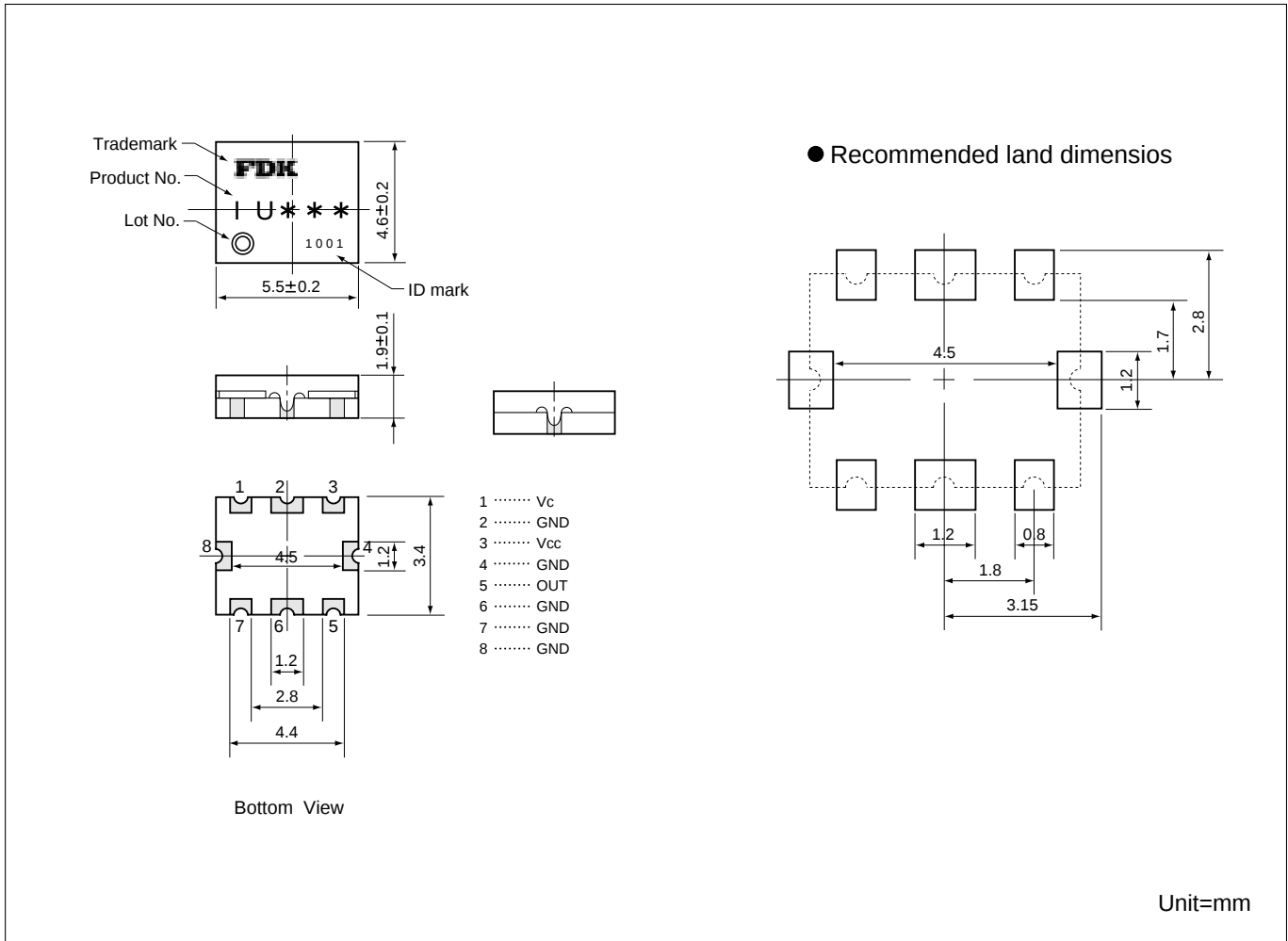
- Size : 5.5×4.8×1.9mm
- Low-cost strip line resonator
- Oscillation frequency : 900-2,500 MHz
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

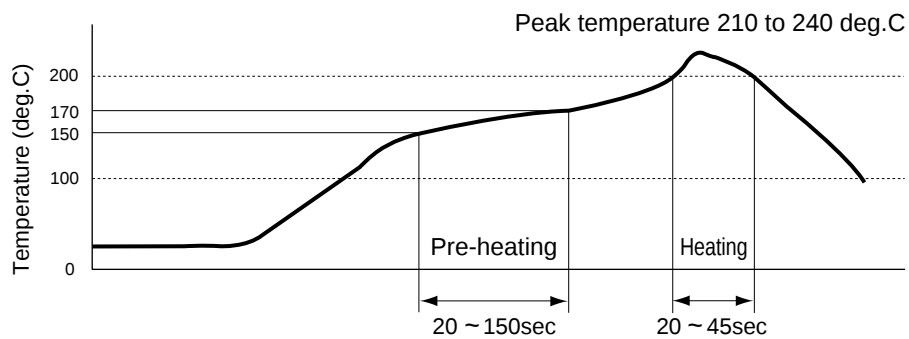
Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
CDMA	IU * * *	2140.0±35.0	2.85	0.5~2.5	53.0±10.0	13.0	-3.0	114(120kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions



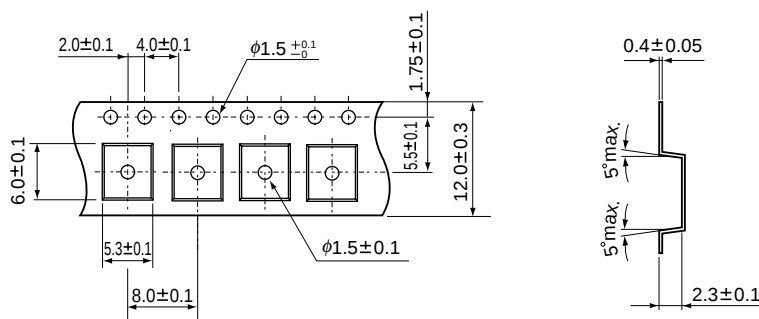
Recommended reflow temperature profile



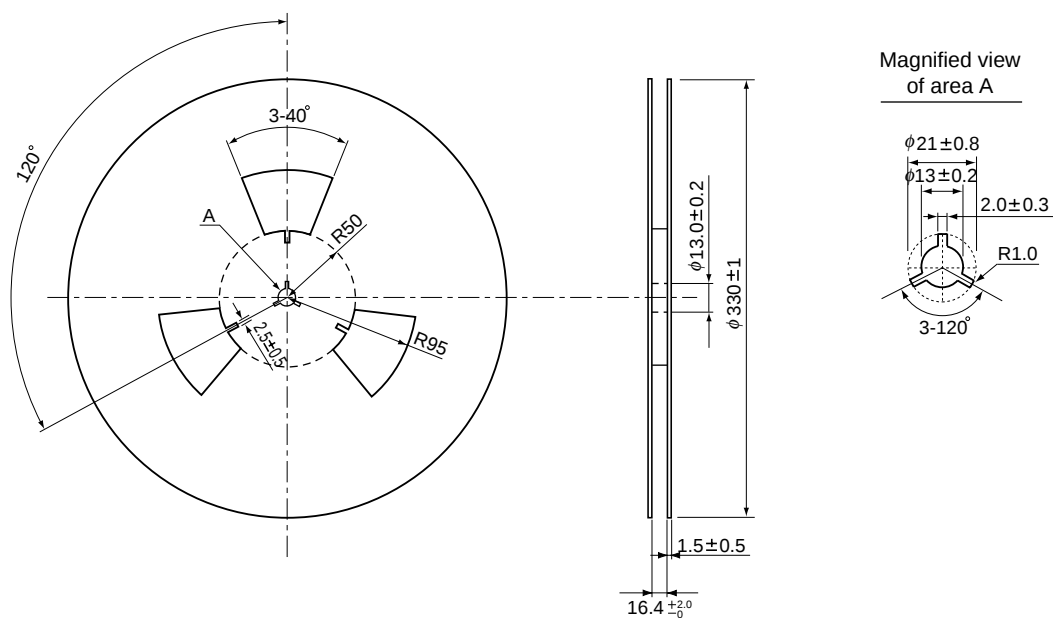
Caution : Do not apply vibrations to the VCO during reflow.

Packaging (one reel containing 3,000 VCOs)

• Embossed carrier tape dimensions



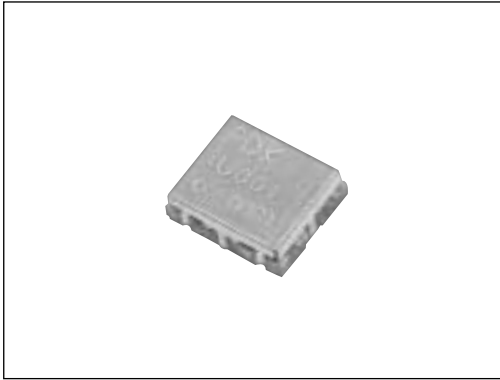
• Reel dimensions



Unit = mm



VCO (Voltage Controlled Oscillator) IQ series



Features

- Size : 4.9×3.9×1.8mm
- Low-cost strip line resonator
- Oscillation frequency : 900-2,700 MHz
- Laser trimming for frequency precision
- For digital mobile phones & many others
- Surface-mount design

Specifications

Use	Model No.	Osc. frequency (MHz)	Supplied voltage (V)	Controlled vol. range (V)	Controlled vol. sensitivity (MHz / V)	Power consumption (mA max.)	Oscillation output (dBm min.)	C / N (dBc min.)
W-CDMA	IQ * * *	2520.0±30.0	2.50	0.5~2.0	64.0±8.0	7.0	- 6.5	129(5000kHz)/1Hz

For specification details, please contact us.

Shapes and dimensions / Recommended land dimensions

