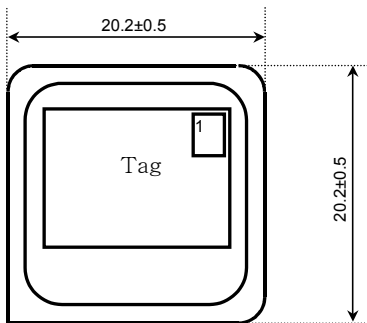
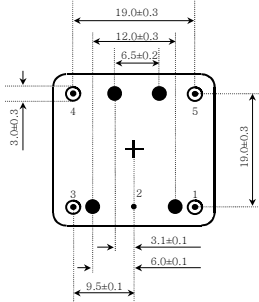
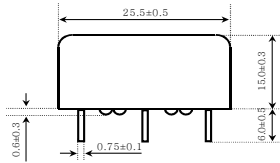


- ▶ PCS Base Station
- ▶ Cellular Base Station
- ▶ Synthesizer
- ▶ Measurement Equipment

### OUTLINE DIMENSIONS



Pin no.	Configuration
# 1	Output
# 2	GND
# 3	Control Voltage N/C
# 4	Reference Voltage N/C
# 5	PowerSupply

### ELECTRICAL SPECIFICATIONS

Frequency range	1.000MHz to 160.000MHz
Frequency Accuracy	±0.5PPM(center control voltage)
Frequency stability	Stability up to ±0.003PPM
Aging (AT Cut)	±0.002PPM/Day, first year±0.3PPM, 10year±2PPM
Aging (SC Cut)	±0.001PPM/Day, first year±0.1PPM, 10year±0.5PPM
Frequency Stability vs Load	±0.02PPM vs ±10% load change
Supply Voltage	+3.30VDC, +12.0VDC
Frequency Stability vs Voltage	±0.02PPM vs ±5% voltage change
Supply Consumption	3.0W(max.)when warm-up; 1.2W(max.)when static
Warm-up Time(AT Cut)	±0.1PPM, <1min.
Warm-up Time(SC Cut)	±0.03PPM, <1min.
Adjustable Frequency Range(AT Cut)	±7.0PPM
Adjustable Frequency Range(SC Cut)	±1.0PPM
Control Voltage Range	0-5V
Slope	Positive
Linearity	±10%
Storage Temperature Range	-40-+100°C
Phase Noise	1Hz, -80dBc/Hz 10Hz, -110dBc/Hz 100Hz, -135dBc/Hz 1kHz, -145dBc/Hz 10kHz, -150dBc/Hz

### FREQUENCY STABILITY VS TEMPERATURE

CODE		
A	±0.01PPM(AT Cut)	0~+50°C
B	±0.003PPM(SC Cut)	0~+50°C
C	±0.03PPM(AT Cut)	-20~+70°C
D	±0.01PPM(SC Cut)	-20~70°C
E	±0.05ppm(AT Cut)	-40~+75°C
F	±0.03ppm(SC Cut)	-40~+75°C

### OUTPUT TYPE AND LOAD CHARACTERISTICS

Clip Sine Wave	Load : 10KΩ / 10pF Output level: >1vp-p
TTL	Load: Max. 10 Low power consumption TTL gates "1" level: > +2.4VDC, "0" Level: < +0.2VDC Duty cycle: 45/55 Rise/fall time: < 6ns
HCMS	Load: Max. 10 Low power consumption TTL /HCMOS "1" level: > +4.5VDC, "0" Level: < +0.2VDC Duty cycle: 45/55 Rise/fall time: < 6ns

### PHASE NOISE GRAPH

