

AN3915S

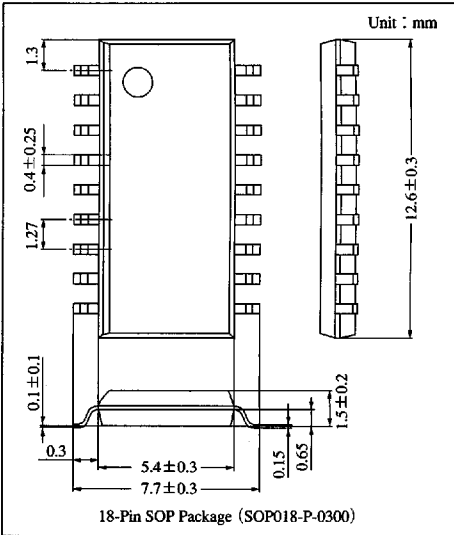
Clock Regenerating VCO IC

Overview

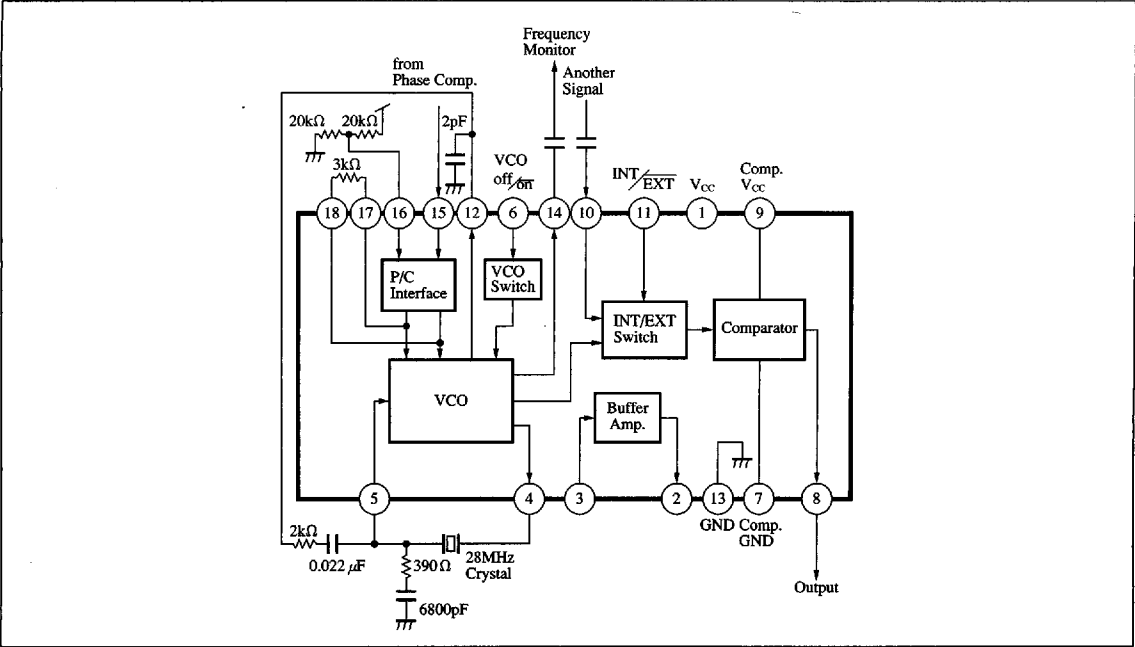
The AN3915S is a clock regenerating VCO IC. It generates stable clock oscillation with quartz of up to 28MHz.

Features

- Adjustable VCO gain (voltage-to-frequency characteristics)
- Built-in comparator
- Usable up to 28MHz quartz element
- Output can be selected either internal VCO or external signal.



Block Diagram



■ Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	Power supply	10	External signal input
2	Buffer amplifier input	11	Comparator input switching
3	Buffer amplifier output	12	Phase control
4	Oscillator output	13	GND
5	Oscillator input	14	Oscillator monitor output
6	Oscillator switch	15	Oscillating frequency control (1)
7	Ground for comparator	16	Oscillating frequency control (2)
8	Signal output	17	Conversion gain control (1)
9	Power supply for comparator	18	Conversion gain control (2)

■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply voltage	V_{CC}	6	V
Supply current	I_{CC}	35	mA
Power dissipation	P_D	210	mW
Operating ambient temperature ^{Note 1)}	T_{opr}	-20 to +75	°C
Storage temperature ^{Note 1)}	T_{stg}	-55 to +125	°C

Note 1) $T_a = 25^{\circ}\text{C}$ except operating ambient temperature and storage temperature.

■ Recommended Operating Range ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Range
Operating supply voltage range	V_{CC}	4.5V to 5.5V

ICs for
VCR