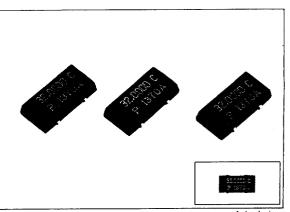


SMALL SMD TYPE HIGH FREQUENCY CRYSTAL OSCILLATOR

G-636P

- Small type SMD, thus allowing high density mounting
- Designed for universal purpose with built-in heat-resisting cylindrical type AT cut crystal and allowing almost the same temperature condition for soldering as SMD IC
- Height is 2.5mm
- Use of C-MOS IC enables reduction of current consumption
- Provided with output enable function



Actual size

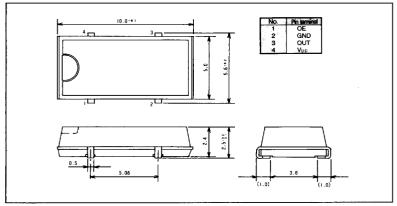
■Specifications (characteristics)

Item		Symbol	Specifications	Remarks
Output frequency range		fo	2.2167MHz ~ 40.000MHz	
Power source voltage	Max. supply voltage	V _{DD} -GND	-0.5V to +7.0V	
	Operating voltage	$V_{\rm DD}$	5.0V ±0.5V	
Temperature range	Storage temperature	T _{STG}	-55°C to +100°C	Stored without Tape and Reel
	Operating temperature	Tope	-10°C to +70°C	
Soldering condition		T _{SOL}	Under 260°C within 10 sec×2 times or under 230°C within 3 min.	
Frequency stability		∆f/fo	C: ±100ppm	-10°C~+70°C
Current consumption		l _{op}	16mA MAX.	No load condition
Duty		T _w /T	40% to 60% (45% to 55% * 1)	1/2 V _{DD} level
Output voltage		V_{OH}	V _{DD} -0.4V MIN.	$I_{OH} = -2mA$
		Vol	0.4V MAX.	I _{oL} = 2mA
Output load condition		N	5LS TTL. MAX.	LSTTL load
		CL	15pF MAX.	C-MOS load
Output enable voltage		V _{IH}	2.0V MIN.	
		Vil	0.8V MAX.	
Output disable current		I _{OE}	12mA MAX.	OE terminal = GND
Output rise time		t _{TEH}	7nsec MAX.	Refer to output waveform chart (page 9)
Output fall time		t _{THL}	7nsec MAX.	
Oscillation start time		t _{osc}	10msec MAX.	More than for 1mS until $V_{\rm pp} = 0V \rightarrow 4.5V$. Time at 4.5V to be 0sec.
Aging		fa	±5ppm/year MAX.	Ta=25°C, V _{DD} =5V, first year
Shock resistance		S. R.	±20ppm MAX.	Drop test of 3 times on a hard board from 75cm height or excitation test with 3000G 0.3mS 1/2 sine wave in 3 directions

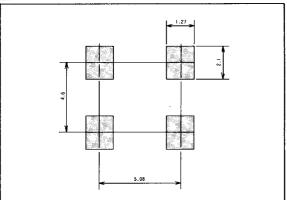
(Unit: mm)

**Unless otherwise stated, characteristics (specifications) shown in the above table are based on the rated operating temperature and voltage condition.

■External Dimensions



■View of recommended soldering pattern (Unit:mm)



^{*1} It is possible depending on condition, refer to reference data (page 22).