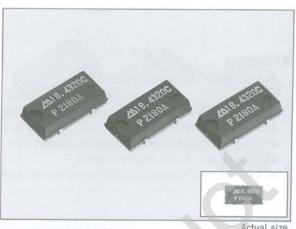
SMALL SMD TYPE HIGH FREQUENCY CRYSTAL OSCILLATOR

SG-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 to 40.000MHz	WHICH CONTRACTOR CONTRACTOR	
Power source voltage	MAX. supply voltage	V _{DD} -V _{SS}	-0.5V to +7.0V		
	Operating voltage	V _{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 _{sot}	Under 260°C within 10 sec.×2 times or under 230°C within 3 min.		
Frequency stability		∆f/fo	C: ±100ppm	-10°C to -70°C	
Current consumption		I _{OP}	16mA MAX.	No load condition	
Duty		T _W /T	40% to 60% (45% to 55% ±1)	1/2 V _{tip} level	
Output voltage		Von	V _{pp} -0.4V MIN,	$I_{\text{out}} = -2\text{mA}$	
		Vol	0.4V MAX.	$I_{01} = 2mA$	
Output load condition		N	5LS TTL. MAX.	LSTTL load	
		CL	15pF MAX.	C-MOS load	
Output enable voltage		VIII	2.0V MIN.		
		VIII	0.8V MAX.		
Output disable current		I _{OE}	12mA MAX.	OE terminal=GND	
Output rise time		tyla	7nsea.MAX.	Dr. L.	
Output fall time		triii	7nsec.MAX.	Refer to output waveform chart (page 9)	
Oscillation start time		tosc	10msec MAX.	More than for 1ms until V _{DD} =0V→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)

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

• The SG-636PT for a TTL load is also available. Please consult us.

External Dimensions

5.0 (1.0)

■View of recommended soldering pattern (Unit:mm)

