

Oscillator THT, temperature-compensated



ATCQO 1812

Features:

- Wide frequency range
- High Frequency stability
- Clipping sine wave



Specifications	Specifications	Remarks
Series	ATCQO 1812	
Frequency range	8.00MHz ~ 40.00MHz	Please specify
Frequency accuracy	±1.0 ppm max	Please specify
Frequency stability versus temperature (FST)	J: ±1.0 ppm (0 ~ +50°C) B: ±1.5 ppm (-10 ~ +60°C) D: ±2.0 ppm (-20 ~ +70°C) K: ±2.5 ppm (-30 ~ +75°C) E: ±5.0 ppm (-40 ~ +85°C)	Please specify
Aging	±1ppm/year	Max
Frequency adjustment	±3ppm	Min
Output type and load characteristics	As per table	Please specify
Frequency stability vs load	±0.2 ppm vs ±10% load change	
Supply voltage	5.0Vdc ±5% , 3.3Vdc ±5%	
Supply current	3mA max (Clipped Sine) 20mA max (CMOS/TTL)	
Frequency stability versus voltage	±0.3 ppm vs ±5% voltage change	
Phase noise	100 Hz, -100 dBc/Hz; 1 kHz, -130 dBc/Hz; 10 kHz, -140 dBc/Hz; 100 kHz, -145 dBc/Hz	
Storage temperature range	- 40°C ~ +85°C	

Output and load characteristics			
Output waveform	TTL	CMOS	Clipped sine
Output level	TTL	CMOS	1V pk to pk
Duty cycle	50% ±10%	50% ±10%	-
Rise/fall time	5ns	5ns	-
Load	2TTL	15pF	10k Ohm / 10pF

Drawing											
ATCQO 1812 <table border="1"> <thead> <tr> <th>PIN</th><th>CONNECTION</th></tr> </thead> <tbody> <tr> <td>1</td><td>NC</td></tr> <tr> <td>7</td><td>GND</td></tr> <tr> <td>8</td><td>OUTPUT</td></tr> <tr> <td>14</td><td>+Vcc</td></tr> </tbody> </table> Dimensions in mm		PIN	CONNECTION	1	NC	7	GND	8	OUTPUT	14	+Vcc
PIN	CONNECTION										
1	NC										
7	GND										
8	OUTPUT										
14	+Vcc										

Order key						
O	- 10.000000M	- ATCQO 1812	- 5	- 5.0	- A	-
Part	Frequency	Type/Package	Tolerance	Voltage	Temperature	Option
O=Oscillator	M=MHz	ATCQO=Temperature controlled QO 1812=18x12mm	±ppm	5.0=5.0Volt 3.3=3.3Volt	J= 0°C ~ + 50°C B= -10°C ~ +60°C D= -20°C ~ +70°C K= -30°C ~ +75°C E= -40°C ~ +85°C	X=Special options