



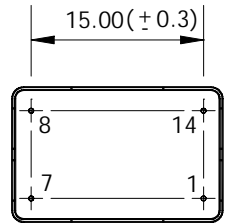
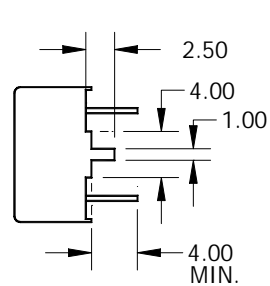
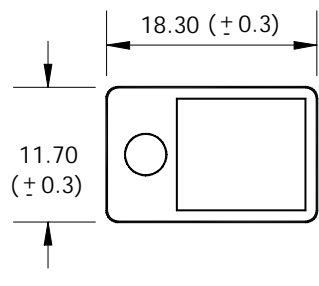
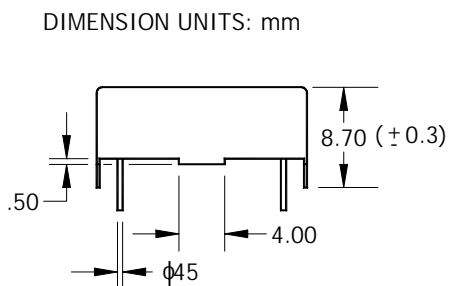
# TCXO I103 Series

# 14 Pin Dip TTL/HCMOS

Frequency	2.000 MHz ~ 25.000 MHz	
Output Level	TTL / HCMOS	
Level	'0'= 0.4 Vdc Max., '1'=2.4 Vdc Min.	'0'=0.1 Vcc Max., '1'=0.9 Vcc Min.
Duty Cycle	50%±10%	
Rise/ Fall Time	10 ns Max.	
Output Load	2TTL or 20KΩ/5pf	
Stability		
Frequency vs. Temperature	See Table Temperature Stability	
Aging @ 25°C	± 1.0 ppm / year Max	
Frequency vs. Voltage	±0.1 ppm max / ±5% change	
Frequency vs. Load	±0.1 ppm max	
Tolerance	±0.3ppm max @ 25°C	
Frequency Adjustment Range	± 3 ppm min /Internal Trimmer	
Supply Voltage	5.0 Vdc ±5%	3.3 Vdc ±5%
Current	20 mA max	
Operating Temperature	See Table 1	
Storage Temperature	-40°C ~ +85°C	

Temp °C	Code	Stability Graph in ppm								
		±1.0	±1.5	±2.0	±2.5	±3.0	±3.5	±4.0	±4.5	±5.0
0~+50	7	**	**	**	**	**	**	**	**	**
-10~+60	8	**	**	**	**	**	**	**	**	**
-20~+70	3	**	**	**	**	**	**	**	**	**
-30~+70	10	**	**	**	**	**	**	**	**	**
-30~+75	4	**	**	**	**	**	**	**	**	**
-40~+80	5	**	**	**	**	**	**	**	**	**
-40~+85	2	**	**	**	**	**	**	**	**	**

Part Number Guide		Sample Part #: I103-7N5-20.000		
I103	Temperature Range	Frequency Stability	Supply Voltage	Frequency
	7= 0°C ~ +50°C	N = ±1.0 ppm	3=3.3 Vdc or 5=5.0 Vdc	20.000 MHz



PIN	CONNECTIONS
1	NC
7	GROUND
8	OUTPUT
14	Vcc