



OCXO Series 25,4 x 22,0 mm SMD and others

Features

- Surface mount package
- Various supply Voltages Available
- Voltage control function
- RoHS Compliant, Lead Free Construction

Specifications general

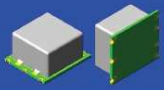
Taisaw/TFE OCXO series	Size	Vcc	Freq Range	Output	Tc Stab	Remark
TFE75	PTH L X W: 50.8*50.8mm Height: 38.88mm / 20mm	5V / 9V / 12V	5MHz~100MHz	Sine/HCMOS/TTL	0.1~50ppb	Low Phase Noise optional; high stability double oven available
TFE45 TFE452	PTH L X W: 36*27mm Height: 19mm / 13mm	3.3V / 5V / 12V	5MHz~100MHz	Sine/HCMOS/TTL	5~300ppb	TFE452 is resistance welding PKG, low phase noise & high short-term stability available
TFE17 TFE172	PTH L X W: 25.4*25.4 mm Height: 13mm / 10mm	3.3V / 5V / 12V	5MHz~100MHz	Sine/HCMOS/TTL	5~300ppb	TFE172 is resistance welding PKG, low phase noise & high short-term stability available
TFE51	PTH L X W: 20*20 mm Height: 13mm / 10mm	3.3V / 5V / 12V	5MHz~60MHz	Sine/HCMOS/TTL	10~200ppb	Resistance welding also available, low noise designing
TFE93	PTH L X W: 20*12.8 mm Height: 10.5mm / 8.5mm	3.3V / 5V / 12V	2MHz~40MHz	HCMOS/TTL	30~300ppb	Low cost solution
TFE942	SMD L X W: 25.4*22 mm Height: 14mm	3.3V / 5V / 12V	5MHz~40MHz	Sine/HCMOS/TTL	5~300ppb	SMD PKG

- Please consult us for customized and detailed specifications.

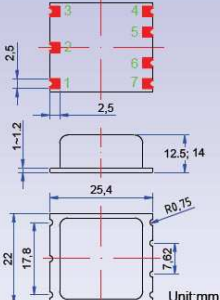
Parameter 25,4 x 22 mm SMD

Oven Controlled Crystal Oscillator

OCXO
TFE942
Series



Outline drawing



Unit:mm

Pin function

1: Vcrt**	2: Vref**	3: Vcc	4: RF output
5: Oven Alarm***	6: Enable**	7: Case GND	

**: Electrical function optional

Features

- ◆ SMD package for reflow
- ◆ High stability
- ◆ Output signal enable
- ◆ Fast warm-up & accurate oven-alarm

Applications

- ◆ Test equipments
- ◆ Communication equipments
- ◆ Base stations

Performance specs

Power supply:	◆ 3.3V±5%	◆ 5V±5%	◆ 12V±5%	
Consumption:	1.1W steady state 2~4W optional start-up state(<2 minutes)			
Warm-up time:	<10ppb after 10 minutes Vs. 2 Hours reading (SC cut)			
Frequency range:	5~100MHz			
Initial tolerance:	200ppb (100 ppb optional)			
Temperature instability	0~70° C	-20~70° C	-40~85° C	
5~12MHz	AT	10~100ppb	10~100ppb	20~200ppb
	SC	5~50ppb	5~50ppb	10~50ppb
12~26MHz	AT	10~100ppb	10~100ppb	20~200ppb
	SC	5~50ppb	5~50ppb	10~50ppb
26~100MHz	AT	30~200ppb	30~200ppb	30~300ppb
	SC	10~200ppb	10~200ppb	10~200ppb

Output signal

- ◆ HCMOS/TTL 15pF/5 TTL load, duty cycle 40~60%
- ◆ Sinus 50Ω Harmonics -30dBc, non-harmonics -70dBc

Freq tuning range:

- ◆ SC: 0.5ppm~1ppm Linearity: 10%
- ◆ AT: 1~3ppm Linearity: 10~20%

Phase noise

10Hz	100Hz	1KHz	10KHz	100KHz
(10MHz SC typical)	-120dBc	-135dBc	-145dBc	-155dBc

Aging:

- ◆ SC: 20~50ppb
- ◆ AT: 100~300ppb