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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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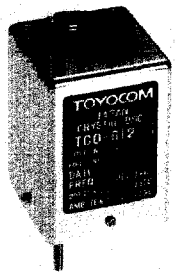
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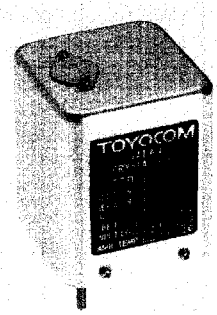
OCXO

TCO-612, 613, 615 Series

Features

- Excellent long and short term stability
- Low SSB phase noise
- Excellent warm-up
- Compact size



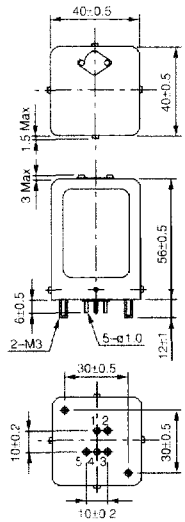


Specifications

Type		TCO-612A	TCO-612B	TCO-612C	TCO-613A	TCO-615A	TCO-615B
Standard frequency		5MHz or 10MHz			5 MHz	5MHz or 10MHz	5 MHz
Stability vs Temperature		±1×10⁻⁷/−10 to +60°C	±5 × 10⁻⁸/ −10 to +60°C		±1 ×10⁻⁷/ −10 to +60°C		±5×10⁻⁹/−10 to +60°C
Stability vs Supply voltage		±1 × 10⁻⁹/ ±10%	±3 × 10⁻⁹/ ±10%		±5 × 10⁻⁹/ ±5%	±2 × 10⁻⁹/ ±5%	±1 × 10⁻⁹/ ±5%
Aging		±5 × 10⁻¹⁰ / day	±2 × 10⁻¹⁰ / day	±5 × 10⁻¹⁰ / day	±2 × 10⁻¹⁰ / day	±2 × 10⁻¹⁰ / day	±5 × 10⁻¹¹ / day
		±2 × 10⁻⁸ / year	±1 × 10⁻⁸ / year	±6 × 10⁻⁹ / year	±5 × 10⁻⁹ / year	±5 × 10⁻⁹ / year	±2 × 10⁻⁹ / year
		after 24 hours operation			after 48 hours operation		
Warm-up		±1 × 10⁻⁶	±5 × 10⁻⁷		±2 × 10⁻⁸	±5 × 10⁻⁸	
		within 10 minutes at +25°C			within 30 minutes at +25°C		
Output		TTL Compatible (Fanout - 2)			2 Vp-p /50Ω Sinewave	TTL Compatible (Fanout - 2)	
Supply voltage		+12V ± 10%					
Current drain	Warm-up	330 mA Max			400 mA Max	550 mA Max	
	Steady state at 25°C	150 mA Max			200 mA Max	300 mA Max	
Frequency adjustment		±5 × 10⁻⁸ Min			±2.5 × 10⁻⁸ Min	±1 × 10⁻⁸ Min	
Weight		100g			200g		
Available frequency range		1 to 10MHz			5 to 7MHz	5 to 10MHz	–

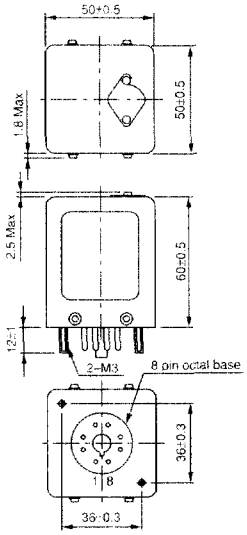
PACKAGE OUTLINES [Dimensions in mm]

[TCO-612A, B, C]



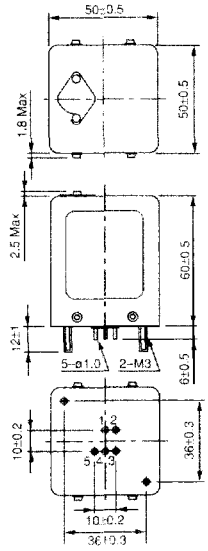
Pin connections	
1	Output
2	Vcc
3	NC
4	NC
5	GND/case

[TCO-613A]



Pin connections	
1-3	NC
4	Output(hot)
5	Output(cold)
6	GND/case
7	Vcc
8	NC

[TCO-615A, B]

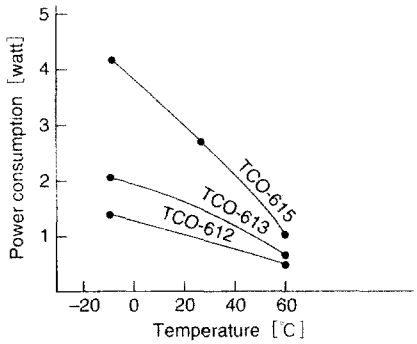


Pin connections	
1	Output
2	Vcc
3	NC
4	NC
5	GND/case

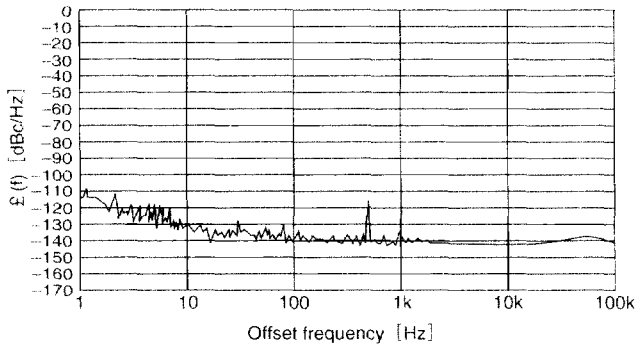
Electrical Data

TCO-613A

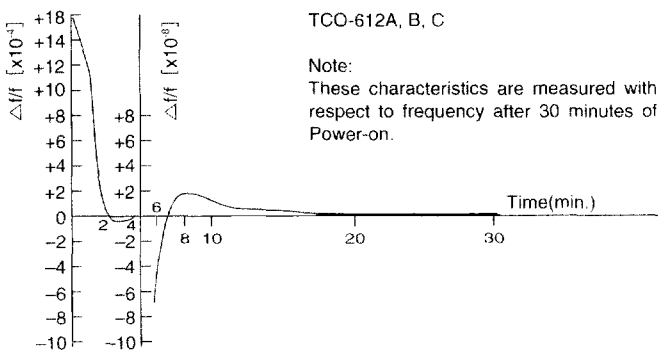
Power consumption vs. Ambient temperature



TCO-613A 5MHz SSB phase noise



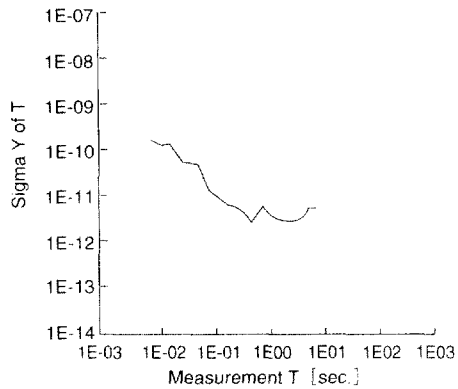
Warm-up characteristics



TCO-612A, B, C

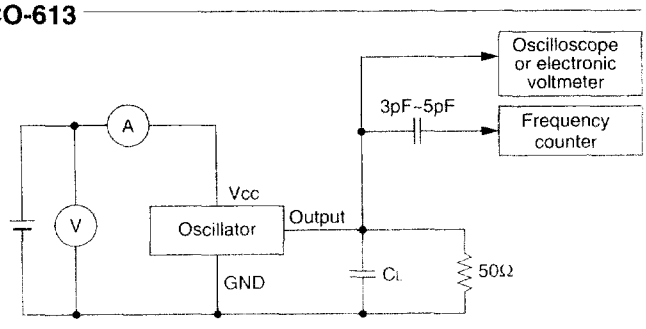
Note:
These characteristics are measured with respect to frequency after 30 minutes of Power-on.

TCO-639 10MHz Short-term stability



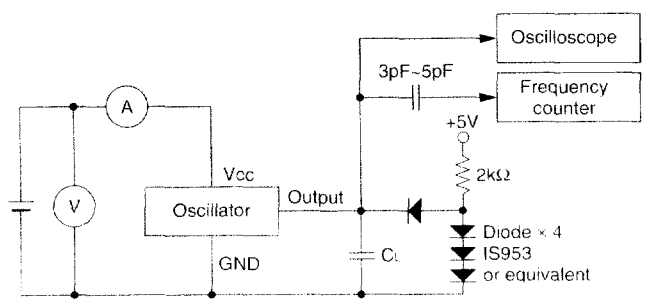
Test Circuit

TCO-613



CL: Total fixture and probe capacitance

TCO-612, 615



CL: Total fixture and probe capacitance= 15pF Max

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

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