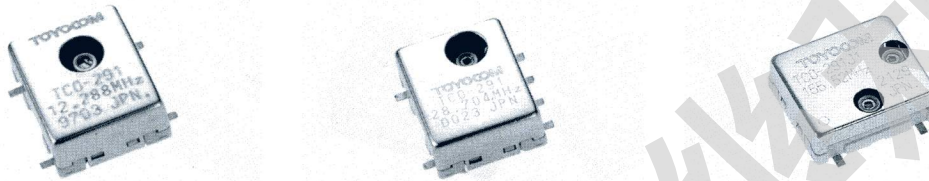


Product Data (VCXO)

TCO-291 Series

Features

- Wide frequency control range
- TTL compatible/Clipped sinewave output
- Small package size (11.4×9.6×5.0mm : 0.55cc)
- High frequency/Small package size (TCO-291J)

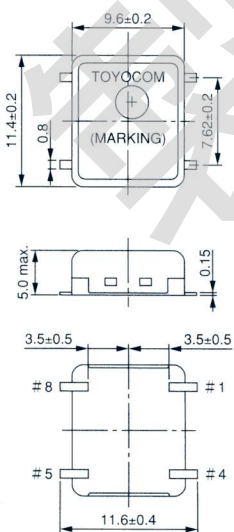


Specifications

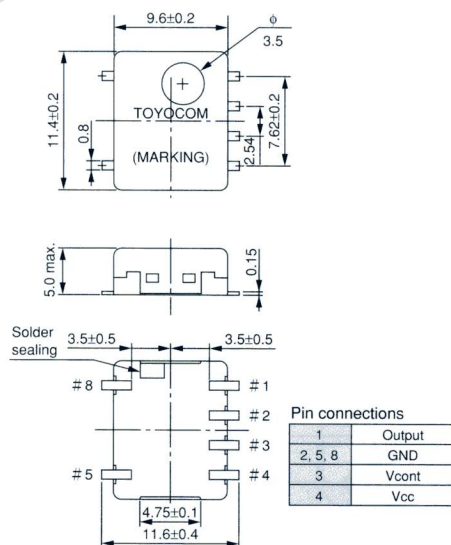
Type	TCO-291A	TCO-291B	TCO-291J
Standard frequency	12.0~26.0 MHz	12.0~51.84 MHz	52.0~155.52 MHz
Supply voltage		+5.0 V±5 %	
Supply current	5 mA Max	30 mA Max	20 mA Max
Output level	1 Vp-p Min (Clipped Sinewave, DC-Cut) 10 kΩ // 10pF	TTL compatible (Fanout-2)	0 dBm Min / 50 Ω
Frequency stability	vs Temperature	±30 ppm Max / -20~+70 °C (referred to +25°C)	
	vs Supply voltage	±5.0 ppm Max / +5.0 V±5%	
	Aging	±3.0 ppm/year	±5.0 ppm/year
Frequency Control range	±100 ppm Min		
Frequency Control voltage	+2.5 V±2.5 V		+2.5 V±2.0 V
Pins	4	6	

Outline Drawing [mm]

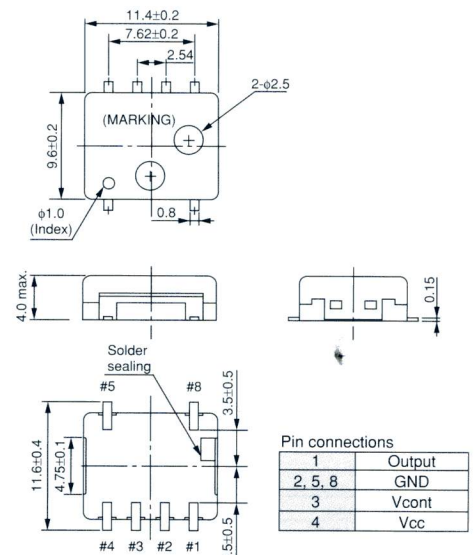
[TCO-291A]



[TCO-291B]



[TCO-291J]

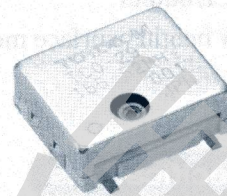


Product Data (VCXO)

TCO-291 Series

Features

- Small package size (11.4×9.6 × 4.0hmm : 0.55cc)
- Wide frequency control range

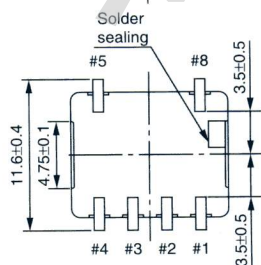
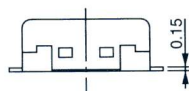
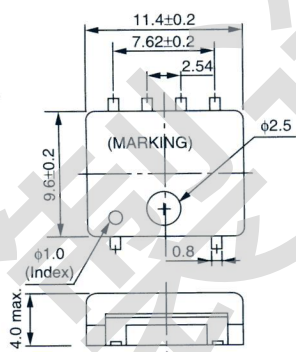


Specifications

TYPE		TCO-291X	TCO-291Y	TCO-291Z
Standard frequency			155.52 MHz	
Supply voltage		+3.3V±5 %	+5.0V±5 %	-5.2V±5 %
Supply current			65 mA Max.	
Output level		LVPECL	PECL	ECL
Frequency stability	vs Temperature	±30 ppm Max./-40°C to +85°C (referred to +25°C)		
	vs Supply voltage	±5.0 ppm Max./+3.3 V±5 %	±5.0 ppm Max./+5.0 V±5 %	±5.0 ppm Max./-5.2 V±5 %
	Aging	±5.0 ppm Max./year		
Frequency control range			±100 ppm Min.	
Frequency control voltage		+1.65V±1.65V		+2.0V±2.0V
Availably frequency range			60 ~ 185MHz	
Pins			6	

Outline Drawing [mm]

[TCO-291X, Y, Z]



Pin connections

1	Output
2, 5, 8	GND
3	Vcont
4	Vcc