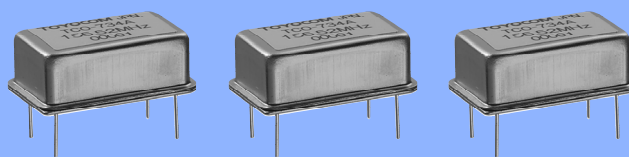


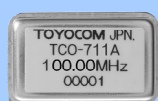
CRYSTAL OCILLATOR SPXO

TCO-711A7

- Frequency range : 1.5 MHz to 100 MHz
- Supply voltage : 5.0 V
- Features : Hermetic double-sealed metal package
- Lead(Pb)-free : Contains Pb in this product exempted by RoHs directive.



Actual size



Specifications (characteristics)

Item	Symbol	TCO-711A7	Remarks
Output frequency range	f_o	1.500 MHz to 100.000 MHz	Please contact us for inquiries regarding the available frequencies.
Supply voltage	V_{CC}	5.0 V \pm 0.25 V	
Storage temperature range	T_{stg}	-40 °C to +85 °C	
Operating temperature range	T_{use}	0 °C to +70 °C	
Frequency tolerance	$F_{tol(osc)}$	$\pm 100 \times 10^{-6}$ Max.	0 °C to +70 °C
Current consumption	I_{cc}	90 mA Max.	No load condition.
Symmetry	SYM	40 % to 60 %	1.4 V level
High output voltage	V_{OH}	4.0 V Min.	
Low output voltage	V_{OL}	0.4 V Max.	
Output load condition (TTL)	L_{TTL}	5 TTL Max.	
Rise time / Fall time	t_r / t_f	15 ns Max.	0.4V to 2.4V level 10 % V_{CC} to 90 % V_{CC} level
Oscillation start up time	t_{osc}	10 ms Max.* ¹	Time at minimum supply voltage to be 0 s
Frequency aging	F_{aging}	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, V_{CC} =5 V, First year.

*1 Rise time (0 V to 4.75 V) of $V_{CC} > 150 \mu s$

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External dimensions

(Unit:mm)

