



## FT12V series

[plastic surface mount voltage controlled oscillator]

### [electrical specifications]

parameters	conditions	minimum	standard	maximum	units
frequency range		1,60		30,0	MHz
frequency calibration	@ +25°C		+/- 15		ppm
temperature stability	over operating temperature	+/- 15		+/- 50	ppm
pullability	over control voltage range	+/- 50		+/- 150	ppm
operating temperature range		-40	0 ~ +70	+85	°C
storage temperature range			-55 ~ +125		°C
power supply voltage			3,3 +/-5%		V
stability vs. power change	Vdd +/- 5%		+/- 5		ppm
stability vs. load change	15pF +/- 10%		+/- 3		ppm
control voltage range			0 ~ 3,3		V
supply current			25		mA max.
output symmetry	@ 1/2 Vdd		40/60		%
rise & fall time	20 % Vdd ~ 80 % Vdd		8		ns max.
output voltage			90 10		% Vdd min. % Vdd max.
output load			30		pF max.
start-up time			10		ms max.
aging (1 <sup>st</sup> year)	25°C +/- 3°C		+/- 5		ppm

### [ordering key]

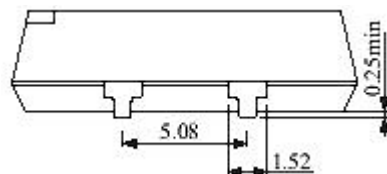
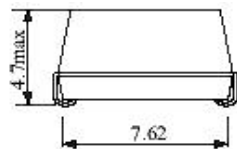
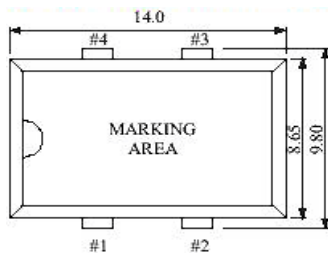
type	- frequency	/ temperature stability	- pullability	/ operating temperature
FT12V	value in MHz	value in ppm	value in ppm	07 = 0°C ~ +70°C 48 = -40°C ~ +85°C

example: FT12V-24,0/50-50/07

### [ pin connection ]

#1 Vcontrol	#2 GND	#3 output	#4 Vdd
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### [mechanical dimensions (mm)]



### recommended solter pattern

