



Texas Instruments CDCE62002 Loop Filter Tool

File Configuration Graph Limits Graph Help

Selection: External: Icp=1.0mA, 3rd Order BW = 71.051kHz ☒ Automatic

Input Only

Gamma Optimization Parameter: 6.385

Ratio pole T3 to T1 (%): 75.0061

CP Current (A): 1000u

kVCO (Hz / V): 70M

Input / Output

Phase Margin (Degree): 75.1567

Loop Bandwidth (Hz): 6.8474k

PFD spur attenuation (dB): 54.3619

3rd order pole BW: 71.0513k

Calculate Output (Using RC Input)

RC Input / Output

RC Input / Output	Tol. (%)
C1 (F)	100n 0
R2 (Ω)	30 0
C2 (F)	22u 0
R3 (Ω)	20k 0
C3 (F)	112p 0

☐ Standard Values

Graph

☐ 3rd Curve Loaded

OK!

**We changed C1,R2,C2 for loop bandwidth.
However, we can't set below loop bandwidth of about 7kHz.**