

TX-801 – Application Note

Operating Guidelines for the TX-801 family of TCXOs

1) Pin 6 RF output

In case of clipped sine wave output a coupling capacitor of 1nF is necessary.

2) Pin 7 Phase noise Filter

VI will enable the Phase noise filter to achieve the best possible Phase noise behavior. This requires a 33nF capacitor at Pin 7 to GND. Phase noise graphs shown on the catalogue datasheet are with Phase noise filter enabled.

On request VI can disable the filter. This will automatically lead into a customized part number. In this case no 33nF capacitor is necessary and Pin 7 should be not connected.

3) Pin 8 Enable Control Pin

If connected to Vs or open the TCXO will function.

Enable pin function: TX-801	
Pin 8 state:	Pin 6 output:
High	Data
Open	Data
Low	No Data

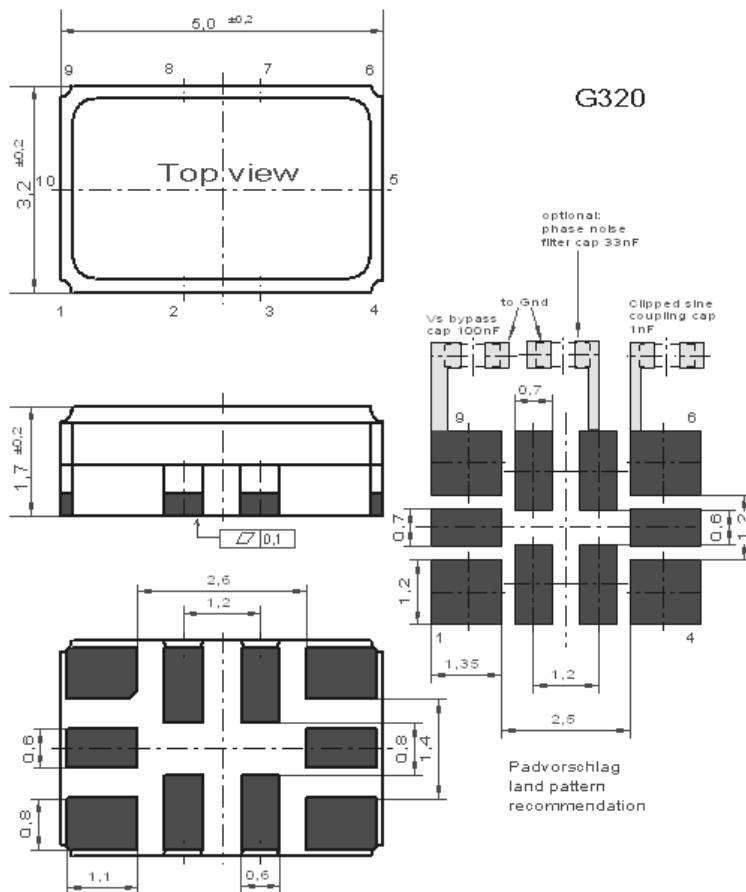
4) Pin 9 supply voltage needs to be blocked by a 100nF capacitor to GND.

Pin Connections	
1	Voltage Control (V_c) or No Connect (option)
2	Do not connect
3	Do not connect
4	Ground (GND)
5	Ground (GND)
6	RF Output
7	Phase Noise Filter Capacitor (optional)
8	Enable Control
9	Supply Voltage Input (V_s)
10	Ground (GND)

Temperature stability

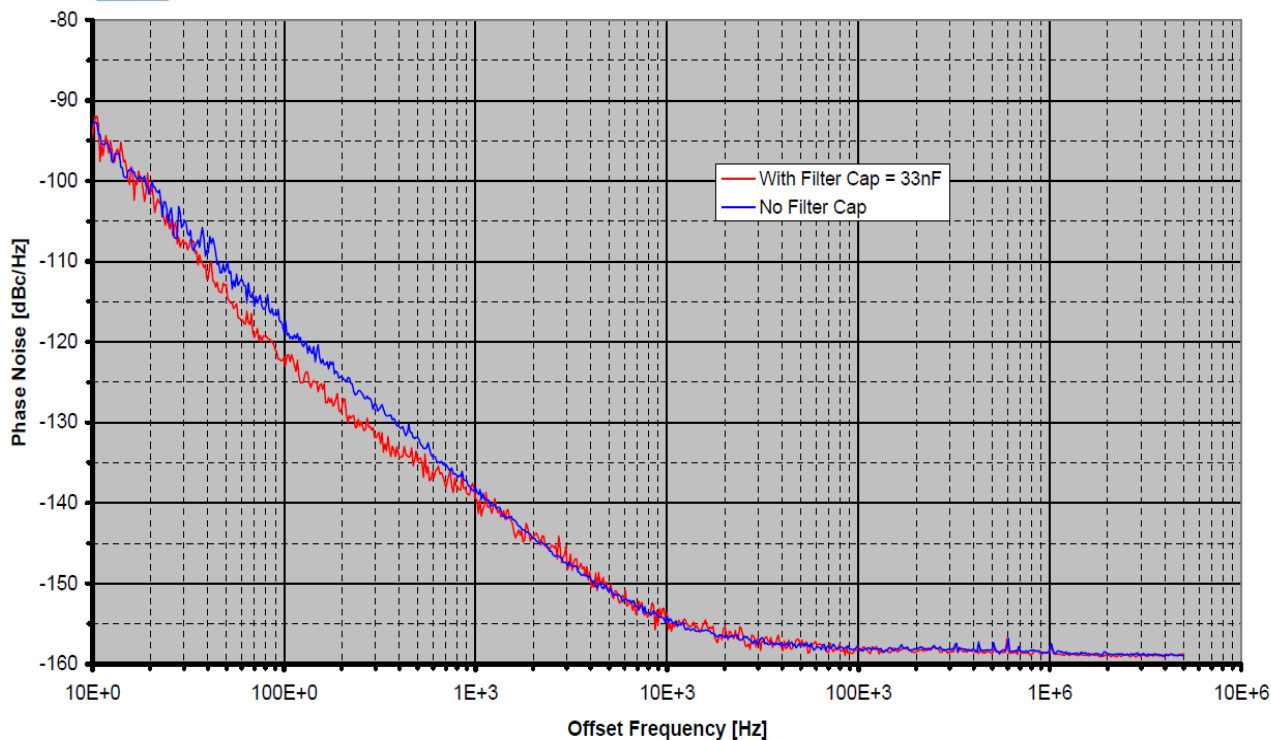
To achieve the specified temperature stability, it is mandatory that the RF output is connected to a 15pF load.

Significant load differences will lead to a different frequency versus temperature behavior, as the TCXO's are compensated with this load in the factory.





TX-801 @ 20MHz
Phase Noise with and w/o filter capacitor



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