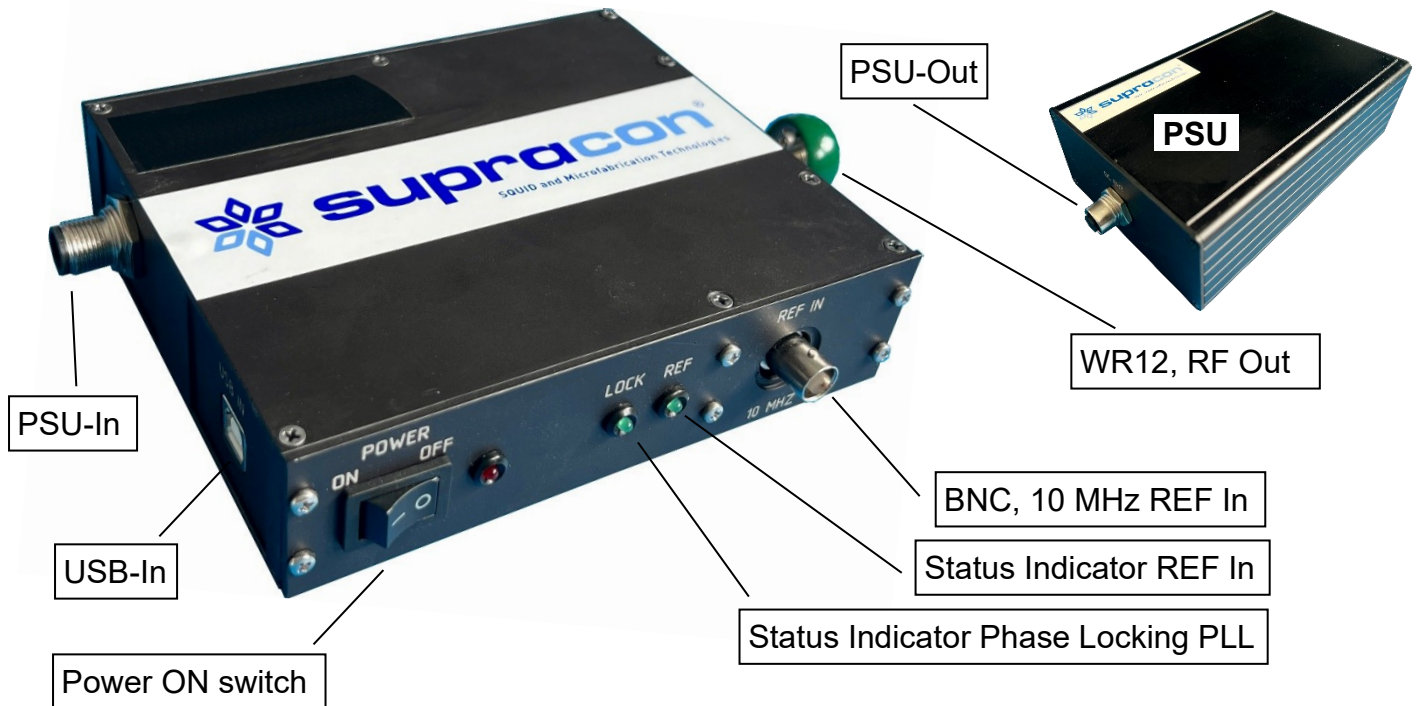


## 70 GHz Synthesizer

November 2022

### Synthesizer used for Josephson voltage standard applications



### **Specifications:**

Frequency range:	69.5 GHz – 70.5 GHz
Frequency accuracy:	same as external 10 MHz reference, ( $\Delta f/f < 10^{-10}$ )
Frequency resolution:	1 kHz
RF output power:	150 mW minimum
Output Power Attenuator Range:	$\geq 35$ dB
Output Power Attenuator Step:	$\leq 0.1$ dB
Phase noise:	$< -10$ dBc @ 1 kHz offset $< -60$ dBc @ 1 MHz offset
External reference input:	10 MHz, BNC connector
Remote control:	USB
PLL indicator for phase locking:	yes
Output waveguide:	WR12
Dimensions (without connectors):	H x B x L = 145 x 40 x 120 (in mm)
Weight:	1 kg
Power supply unit (PSU):	Input 100-240 VAC or 6-14 VDC