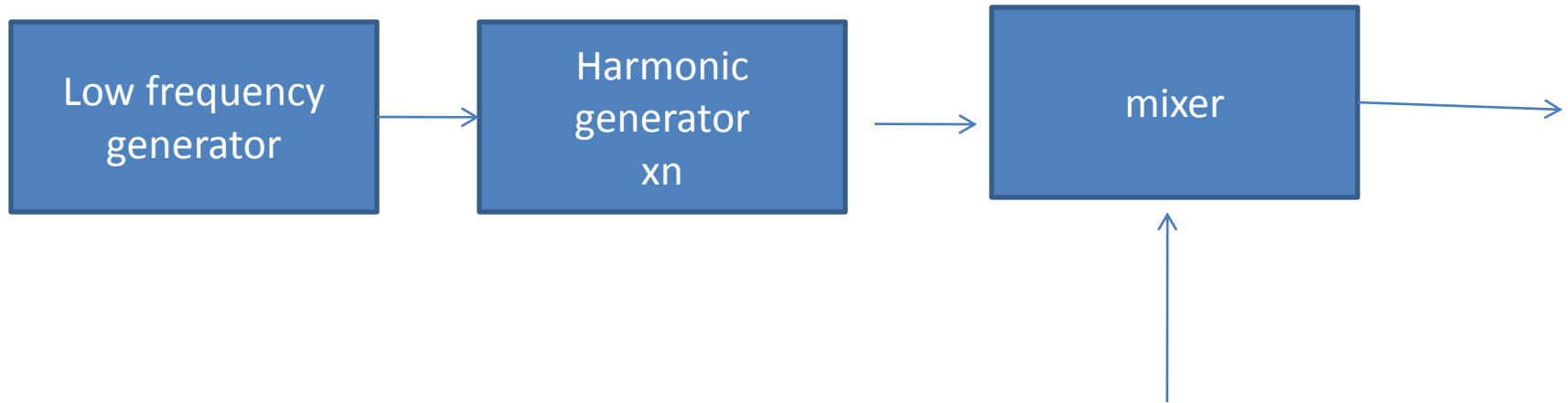


# Frequency Measurement

- Electronic Techniques



# Power measurement

- Measurement of low power(0.01-10) –BOLO meter
- Positive temperature coefficient
- Negative temp coefficient
- Limitation
- Errors

# Medium power measurement

- Calorimeter techniques

Heat exchange

# Measurement of impedance

- Magic T
- Using slotted line
- Using reflectometer

# Measurement of SWR

- $S < 10$
- $S > 10$ ,
- Double minimum method

$$P_{\min} \propto V_{\min}^2$$
$$V_x = \sqrt{2} V_{\min}$$

$$VSWR = \frac{\lambda_g}{\pi(d_2 - d_1)}$$