

Schematic shows symmetrical pulse generator.

For R117=R116 you can use:

$$f = \frac{1}{1.4 * C112 * R116}$$

For detail signal pulse pause differentiation use:

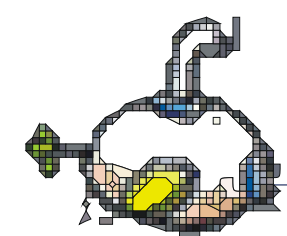
$$f = \frac{1}{(t_{\text{impulse}} + t_{\text{pause}})} = \frac{1}{(t_i + t_p)}$$

$t_i = 0.7 * C112 * R117$

$t_p = 0.7 * C112 * R116$

Detailed calculation:

$$f = \frac{1}{0.7 * C112(R117+R116)} = \frac{1}{0.7 * 10\mu\text{F}(33\text{k}+33\text{k})}$$

$$= \frac{1}{0,000007\text{F} * 66000 \text{ Ohm}} = \frac{1}{0.462 \text{ sec}} = 2 \text{ Hz}$$


Project:	555 Tutorial_Basic
Schematic detail:	Impulsegenerator Symmetrical Pulses
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<b>DINA3</b>	