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$$t_w = 0.00247 R \times 0.85 C$$

where t_w is in μsec
 R is in $k\Omega$
 C is in pF

We want a 1 msec pulse width, but also the option to increase it to up to 20 msec.

$$\text{Choose } C = 10,000 \text{ pF} = 10 \text{ nF} = 0.01 \mu\text{F}$$

$$1000 \mu\text{sec} = 0.00247 R \times 0.85 (10,000 \text{ pF})$$

$$R = \frac{1000 \mu\text{sec}}{0.00247 \times 0.85 \times 10,000 \text{ pF}} = \frac{1000 \mu\text{sec}}{20.995}$$

$$\underline{R = 47 \text{ k}\Omega} \quad (1 \text{ msec})$$

$$\therefore \text{ @ } 20 \text{ msec, } \underline{R = 952 \text{ k}\Omega}$$

Use low temperature coefficient parts and low tolerance for resistance

C is Kemet pn# C0805C103F3GEC AUTO ($\pm 1\%$, COG, NPO)

R's use Viking AR series (0.02%, 10 ppm)