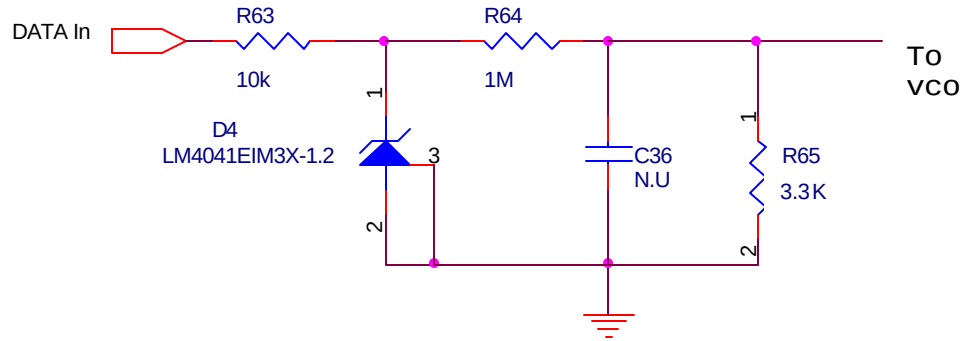


/04/200

Emmission Designator Calculation

M – Modulation frequencies are: 0.9 KHz. and 2.4 KHz.



$$V_{\max} = \frac{V_{D4} \times R65}{(R64 + R65)}$$

$$V_{\max} = \frac{1.2V \times 3.3K}{(1M + 3.3K)} = 0.004$$

For every 1Volt the frequency deviation is 124K

Using the formula $B(n) = 2M + 2DK$

Where: $M = 2.4$
 $DK = 124 \times 0.004 = .496$

$$BW_{-3dB \max} = (2 \times 2.4) + (2 \times 0.496) = 5.8 \text{ KHz.}$$

Therefore the emmission designator should be **5K8F1D**