# Letters _____

## Corrections to "Dual Mode Dielectric Resonator Loaded Cavity Filters"

S. J. FIEDZIUSZKO, MEMBER, IEEE

Due to typographical errors in the above referenced paper[1], the following corrections should be made.

On page 1313, in formula (4), $J^1$ should be replaced with $J'$; also

$$h^2 = \epsilon k_0^2 - \beta^2$$
$$p^2 = \beta^2 - k_0^2.$$

In formula (6), the expression $J_i'(1.841) = 0$ should be separated from the expression for $\gamma_0^2$.

On page 1314, formula (8) should read

$$k = 0.4082 M \frac{\gamma_0^3 \left( \frac{1.841}{b} \right)^2}{k_0^2 (\sinh \gamma_0 t - \gamma_0 t)}.$$

[1]S. J. Fiedziuszko, *IEEE Trans. Microwave Theory Tech.*, vol. MTT-30, pp. 1311–1316, Sept. 1982.

## Corrections to "Waveguide Electrooptic Modulators"

ROD C. ALFERNESS

The following corrections should be made to the above paper[1]. In (3), $n^2$ should be $n^3$.
Equation (8) should read

$$\Delta \beta L = - \pi n^3 r \Gamma \frac{V}{G} \frac{L}{\lambda}.$$

Equation (12) should read

$$f_t = \frac{c}{\pi \sqrt{\epsilon_{eff}} L}.$$

On page 1127, column two, 9th line below (22) should read

$$( > 5 \text{ GHz}).$$

Equation (23) should read

$$V/\Delta f = \frac{\pi}{2c} \left( \frac{\sqrt{\epsilon_{eff}} \delta}{n^3 r} \right) p \lambda \frac{G}{\Gamma}.$$

Equation (24) should read

$$(V/\Delta f)_{min} = \frac{\pi}{8c} \left( \frac{\sqrt{\epsilon_{eff}} \delta}{n^{7/2} r \sqrt{\Delta n}} \right) \frac{p \lambda^2}{\Gamma}.$$

In addition, a type set version of Table I is shown below.

| | $\Delta n$ | Loss (dB/cm) | $w_{min}/\lambda$ | $n^3 r$ ($\times 10^{-6} \mu m/v$) | $\frac{\epsilon_{eff}}{n^3 r}$ (arb) | $N_m \left[ 1 - \frac{N_0}{N_m} \right]$ |
|---|---|---|---|---|---|---|
| LiNbO$_3$ | 0.01-0.02 | 1, $\lambda = 0.63 \mu m$[113]<br>0.5, $\lambda = 1.15 \mu m$[75]<br>0.3, $\lambda = 1.32 \mu m$[114] | 2.4 | 328 | 5 5 | 2 |
| GaAs | 0.1 | ~4 | 0.6 | 49 | 25 | < 0.3 |

[1]R. C. Alferness, *IEEE Trans. Microwave Theory Tech.*, vol. MTT-30, pp. 1121–1137, Aug. 1982.