

Tunneling of EM waves through prism slit

The tunneling of EM-waves through a prism gap goes without any time delay. The reason is, that at the first frontier from glass to air available free electrons (not bound in the molecular or crystal structure of the glass) will be accelerated, so that they generate forces according to the near field. Influenced by this near field forces the reflecting wave is generated, but at the same time, due to the small distance to the next prism they also influence the free electrons in the near by prism and they also generate by their movements a new electromagnetic wave within the second prism. So both electromagnetic waves are generated simultaneously, because the near field forces act immediately.

- Copyright © 2015-2017 Kechel