

What is Passive Intermodulation Distortion?

Passive Intermodulation Distortion (PIM) is a phenomenon that occurs when 2 signals present on a transmission line mix in a non-linear manner. This mixing creates additional frequency components (where the $f_{im} = \pm mf_1 + \pm nf_2$ and m and n are integers) that may fall within a cellular uplink band, causing interference. Poorly designed or assembled connectors and cable assemblies can generate PIM.