

# **RIPPLE: DEFINITIONS**

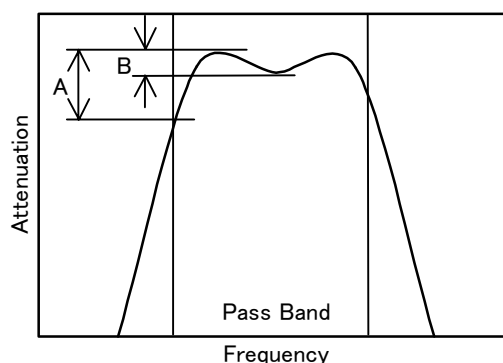
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## **1. Ripple: General Definition**

In-band ripple is defined as the fluctuation of the insertion loss within the pass band. Although this definition seems straight forward, it is possible to measure the ripple in two different ways. The diagram below explains these two methods.

## **2. Two definitions of In-band ripple**

There are two measuring methods. These are, (A) top to edge and (B) peak to peak measurements.



### **Top to Edge (A)**

Difference between the largest and smallest value of Insertion Loss within the Pass Band

In general, the value from this measurement will be larger than the peak to peak measurement. Unless otherwise specified, UBE catalogs, specifications and technical documents use this definition.

### **Peak to Peak (B)**

Difference of Insertion Loss between the peak top and negative peak top