

1. Record Nr.	UNINA9910172018603321
Titolo	IEEE recommended practice for rectangular metallic waveguides and their interfaces for frequencies of 110 GHz and above . Part 3 Recommendations for performance and uncertainty specifications
Pubbl/distr/stampa	New York : , : IEEE, , 2016
ISBN	1-5044-2196-5
Descrizione fisica	1 online resource (19 pages)
Disciplina	621.381331
Soggetti	Wave guides - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Recommendations for summarizing the performance and the expected uncertainty of the reflection coefficient of rectangular-waveguide apertures and interfaces for 110 GHz and above are provided in this recommended practice. The information provided also facilitates the development of a complete uncertainty analysis for the performance of rectangular waveguide interfaces. For example, it includes the dimensional information essential for calculating the uncertainty of both reflection and transmission coefficients through interfaces provided by different manufacturers if both follow this recommended practice. Scope: This recommended practice provides recommendations for determining the electrical performance and expected uncertainty of measurement of rectangular waveguide for 110 GHz and above. Purpose: The recommendations outlined in this recommended practice specify procedures for examining and communicating uncertainties that are associated with more detailed dimensional imperfections in the waveguide apertures and interfaces that are given by the tolerances specified in IEEE Std 1785.1(TM)-2012 and IEEE Std 1785.2(TM)-2016.2 Following these recommendations will provide the end user of the waveguides specified in IEEE Std 1785.1-2012 and IEEE Std 1785.2-2016 with an easy-to-understand summary of the dominant aperture and interface errors and all of the information required to perform a complete and detailed uncertainty analysis (if desired) in a common

format. The recommendations are designed to simplify calculations based on procedures outlined in JCGM 100:2008.
