

Comb Generator Overview

Comb generators produce a wide spectrum of equally spaced spectral lines. The comb frequency is equal to the frequency gap between neighbouring spectral lines. Comb generators are purpose-built “interferers” used to test setups for conducted or radiated emissions. Comb generators for testing radiated emission setups have been characterised in an absorber chamber and can thus be used as a reference source for non-ideal test setups.



TBCG1



TBCG2



TBCG3-CN

Model	TBCG1	TBCG2	TBCG3-CN
Characterized frequency range	100 MHz – 6 GHz	2 MHz – 6 GHz	5 kHz – 2 GHz
Comb frequencies	internal, 100 MHz	external, 2 MHz – 300 MHz	switchable 0.1, 0.5, 1, 5, 10 MHz, external 5 kHz – 300 MHz
External Input	no	Only external	yes
Power supply	9V Battery	passive	4 x NiMH, AA
accessory	-	-	External universal charger
Application	Reference for radiated emissions	General purpose, frequency multiplier	Reference for conducted emissions