



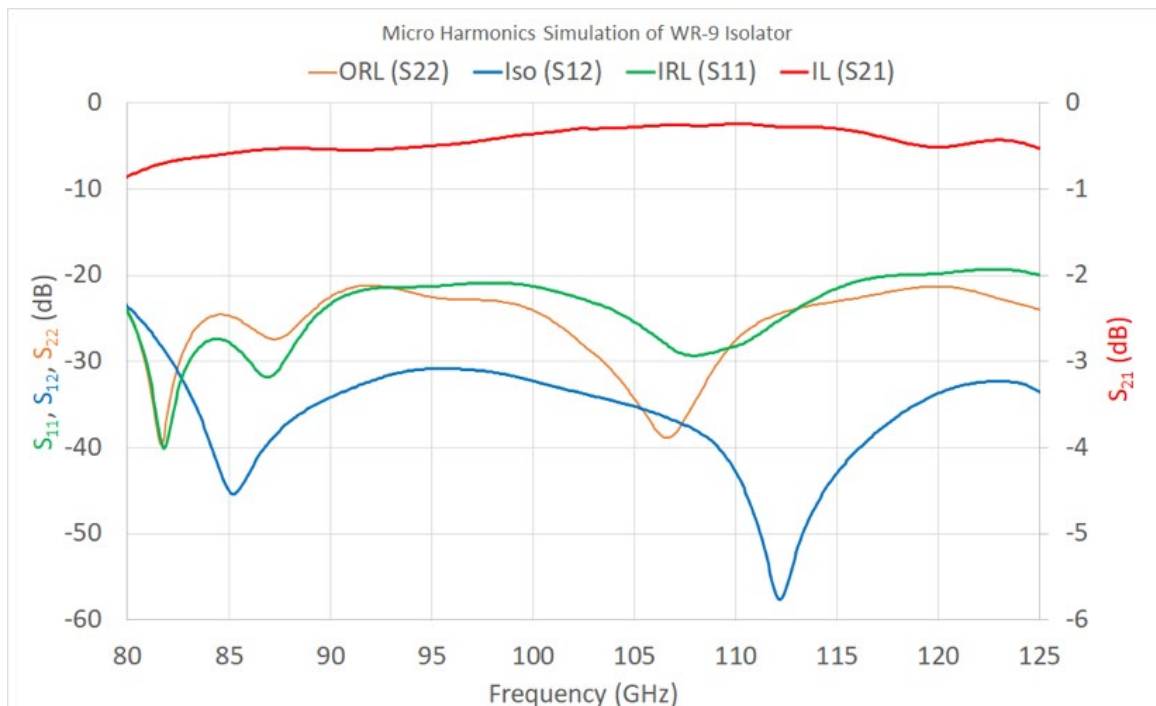
MicroHarmonics

Targeting THz systems with isolators in non-standard bands

THz systems employing frequency multiplier chains may benefit from isolators in non-standard bands. For example, here are three multiplier chains that could make use of a non-standard isolator in the WR 9.0 band covering 82-125 GHz:

Output Band	Frequency (GHz)	Frequency Multipliers
WR-2.2	330-500	X2X2 = X4
WR-1.5	500-750	X2X3 = X6
WR-1.0	750-1100	X3X3 = X9

At a customer's request, we have designed a WR-9 isolator that operates in the band 82-125 GHz. The simulation data is shown in the graph. Prototypes are now in production. The cryogenic version of this isolator will be in the customer's system beginning August 2020.



Micro Harmonics specializes in ferrite components for MMW and THz systems. Our goal is to provide technology enabling components for this vital and growing market.

**Contact us when you are
searching for special solutions
for your THz systems.**