

BMB RF Interconnects

Features & Benefits

- MIL-STD-348, SOSA-Aligned Interface
- D38999 compatible and gang mateable for versatility
- Larger form factor for higher-power RF applications than SMP
- More durable while offering same benefits as SMPx series

Applications

- Embedded System I/O
- Board-to-Board
- High Power RF Transmit



Enhanced Power Handling Solution

A common challenge when using small envelope RF connectors like SMP and SMPM is power handling and fragility. The BMB RF Series solves this challenge by providing a blind-mate, more robust, and higher power handling option. Additionally, BMB is a SOSA-Aligned interface, suitable for use in embedded systems I/O. The BMB interface offers a higher operating frequency when compared to conventional M39029 Size 8 options.

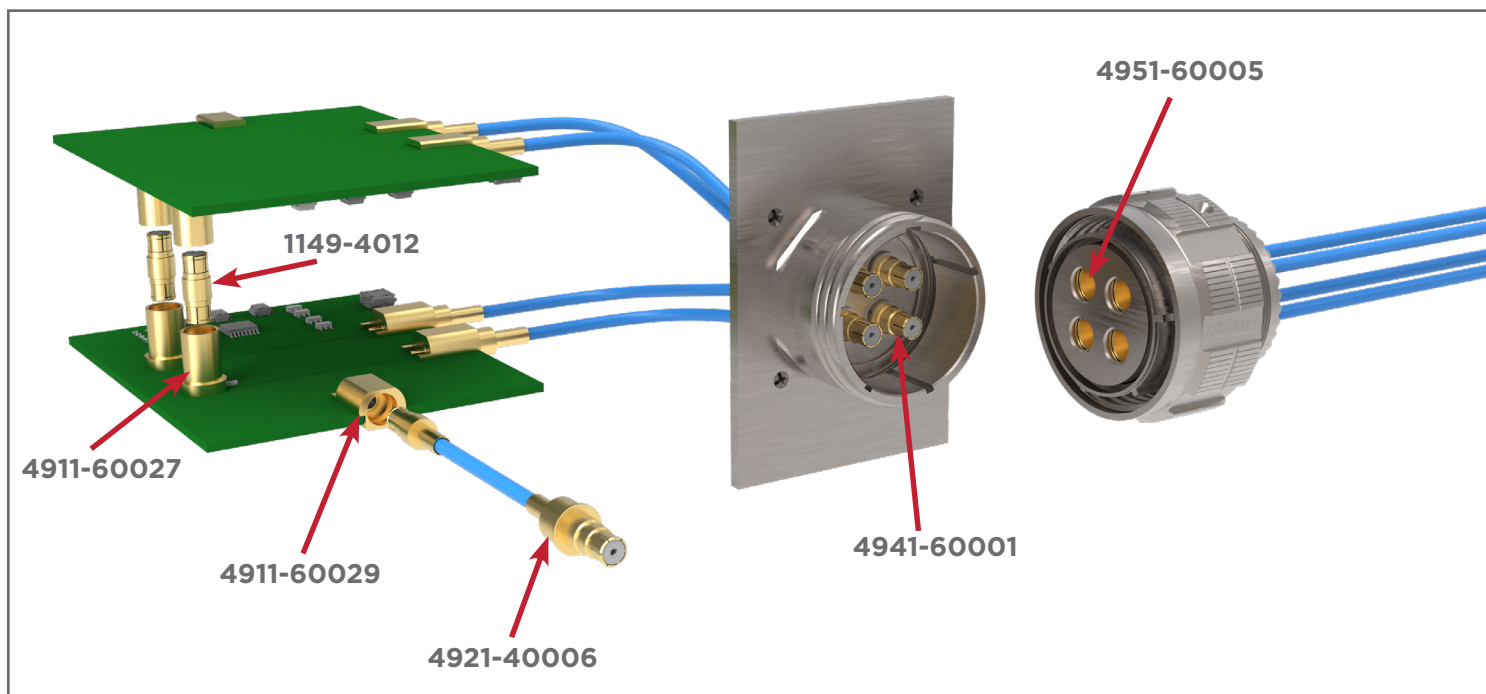
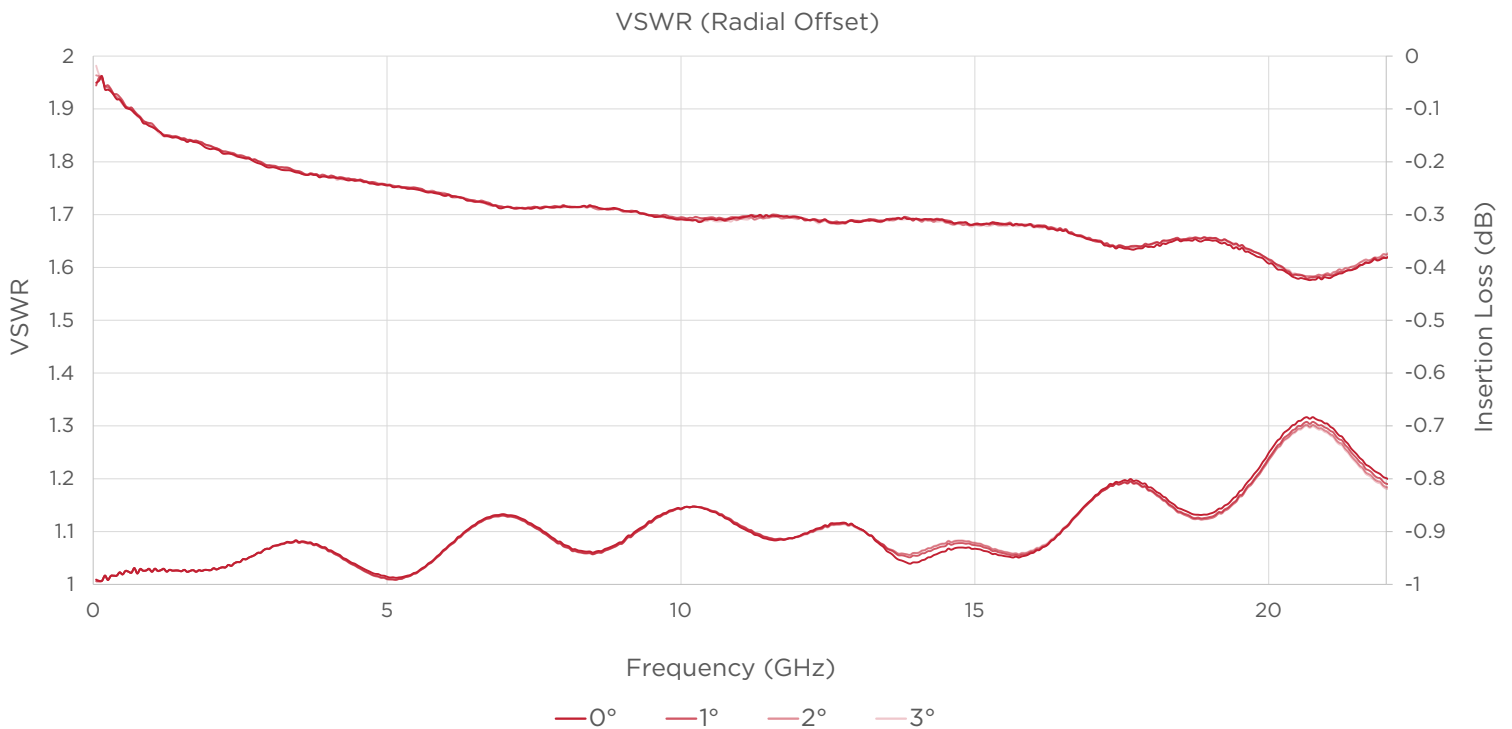
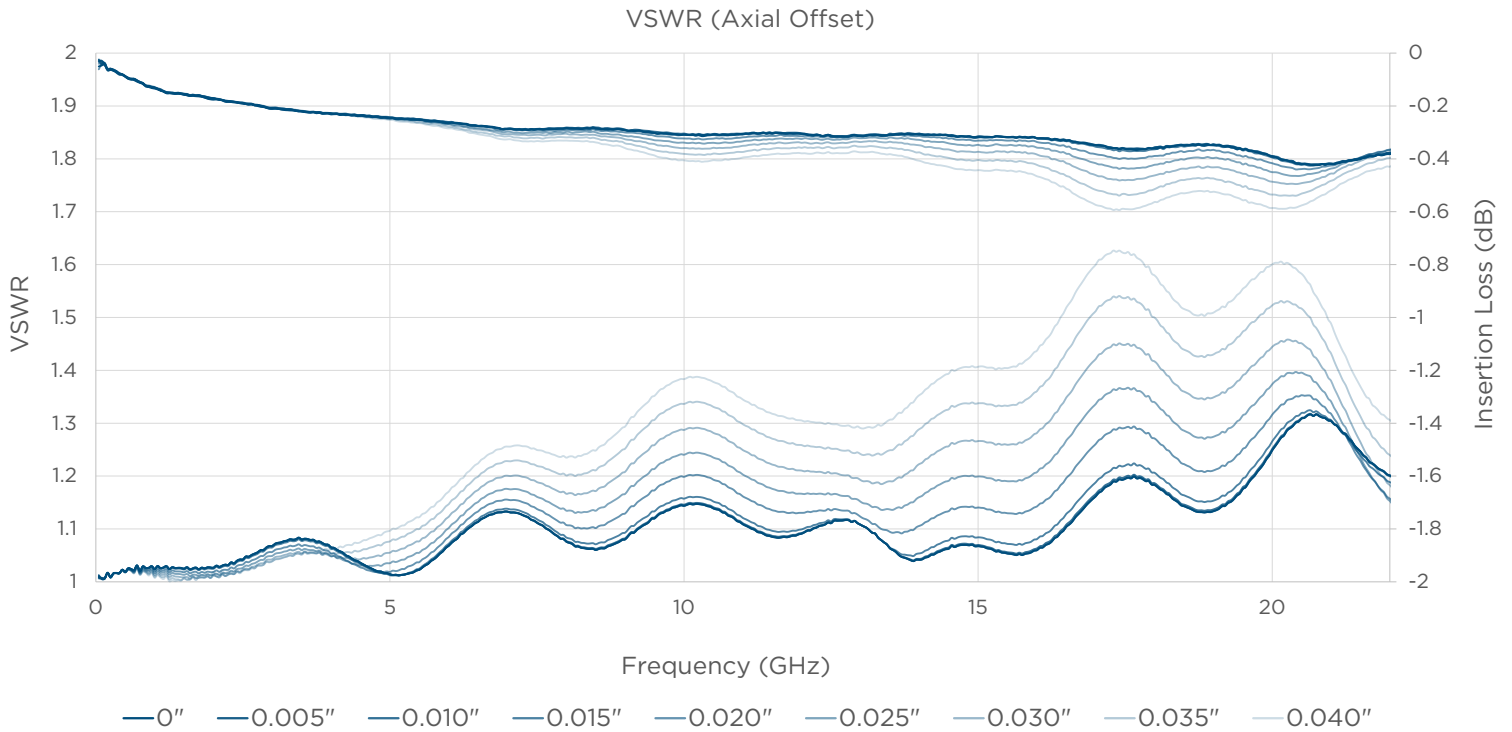


Figure 1: A representation of the entire signal path from in- to - out-of-the box using BMB RF Interconnects

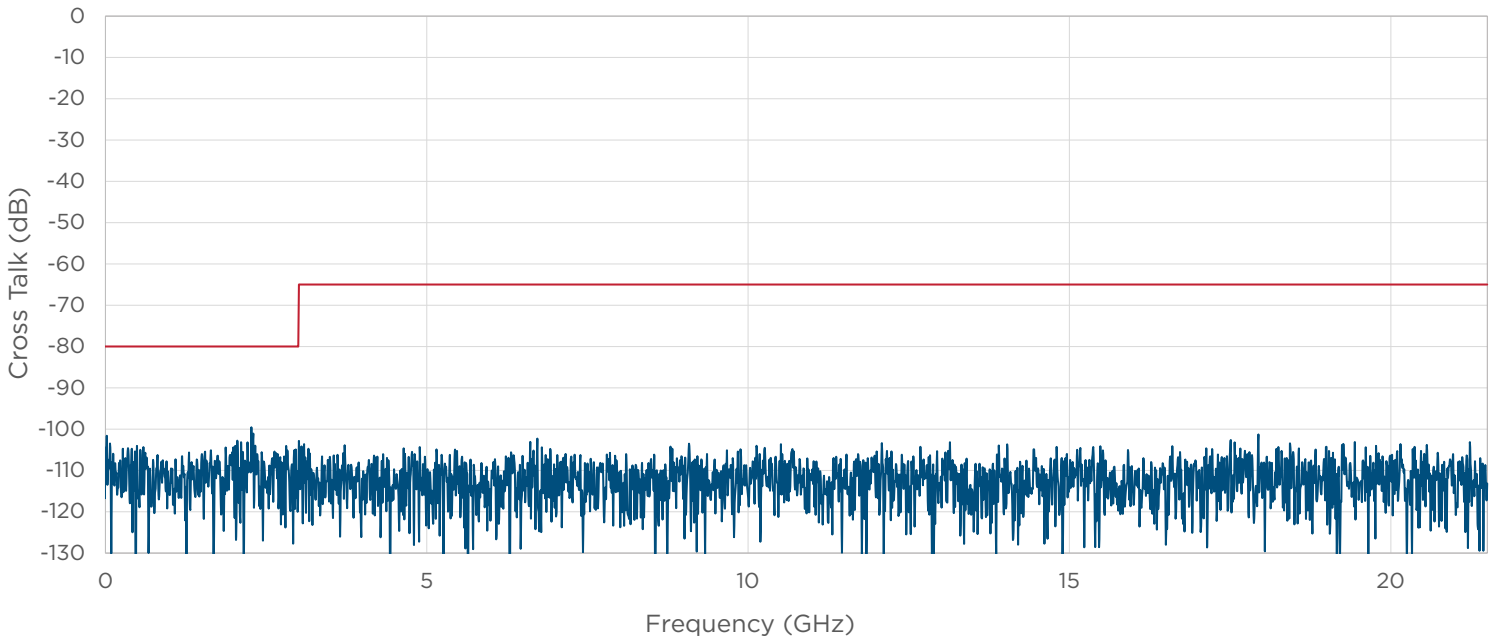
Performance Metrics and Alignment Data

The below plots show typical VSWR variation from DC to 22 GHz for an BMB Female-Female bullet under radial and axial misalignment conditions.



Performance Data

Typical Size 8 BMB 38999 Adjacent Port Cross Talk



The plot above shows the cross talk between two Size 8 BMB mated pairs in adjacent ports of a 38999 circular connector. The cross talk is below the noise floor of our lab and well below the allowable limit of the BMB specification.

Standard COTS Offering



4911-60027

BMB Male PCB Surface Mount Connector, R/A, FD (CPW/Microstrip)



7032-10039

BMB (Size 8) D38999 Socket to SMPM Female VITA 67.3 12" Cable Assembly for .085 Cable



4921-40005

BMB Female Connector for .141 Cable



1149-6413

BMB Female to 2.92mm Male Adapter

For a full list of offerings visit: www.svmicrowave.com/bmb-rf-interconnects