

BOARD-TO-BOARD SOLUTIONS

Amphenol RF offers a variety of board-to-board solutions engineered to maximize radial and axial float, eliminating the need for cables between boards and simplifying designs to eliminate assembly errors. These RF connector designs typically include three pieces, utilizing a bullet adapter mated between smooth bore and detent PCB jacks. Application needs can be met based on the special features of each series: AFI Plugs contain an embedded bullet, PSMP products are designed for high-power and HD-EFI products are exceptionally suited for blindmating. Proprietary interfaces like the HD-EFI and HD-AFI are designed with closed-entry contacts, reducing the risk of mismating or crashing interfaces.

Amphenol RF has all the available resources to help you choose the right series: 3D and HFSS component models are conveniently located on our website, as well as technical support to answer questions about PCB launch optimization.

	High-Frequency		High-Power		High-Float	
	SMPM	SMP	PSMP	AFI	HD-AFI	HD-EFI
Impedance	50 Ohm	50 Ohm	50 Ohm	50 75 Ohm	75 Ohm	50 Ohm
Max Frequency	65 GHz	40 GHz	10 GHz	6 3 GHz	18 GHz	6 GHz
Min PCB Spacing	6.6 mm	9.1 mm	12.6 mm	12.7 mm	11.5 mm	18.9 mm
Power Handling	50 W @ 2.2 GHz @ 25° C	30 W @ 2.2 GHz @ 25° C	200 W @ 2.2 GHz	200 W @ 2.2 GHz @ 8.8° C	10 W @ 2 GHz @ 25° C	40 W @ 2.5 GHz @ 85° C
Axial Misalignment	0.25 mm	0.25 mm	2.00 mm	1.00 mm	2.00 mm	1.40 mm
Radial Misalignment	0.51 mm	0.51 mm	1.32 mm	0.80 mm	0.80 mm	0.7 mm

*applies to 50 ohm AFI products only
Note: Technical specifications are typical and may vary by specific part number



Space-Saving, Cable-Free
Designs for Compact Applications