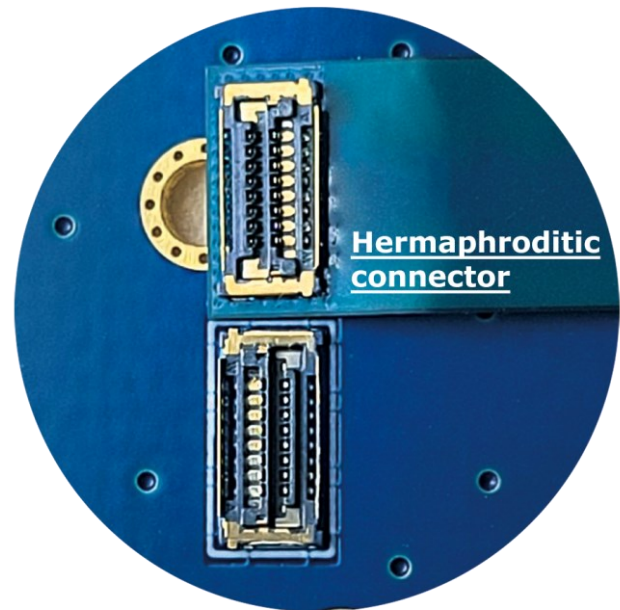
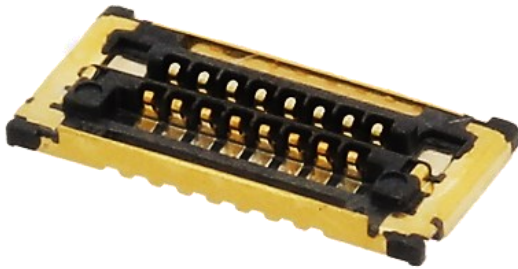


## High-speed & Micro-miniature Board to board connector (HMB)



**Withwave's High-speed & Micro-miniature Board to board connector (HMB Series)** are **hermaphroditic** mating interface and offers good RF characteristics for high-frequency (**Resonance frequency above 50GHz**) applications such as 5G Millimeter-Wave. The hermaphroditic mating design contributes to a very cost-effective solution.



## Features

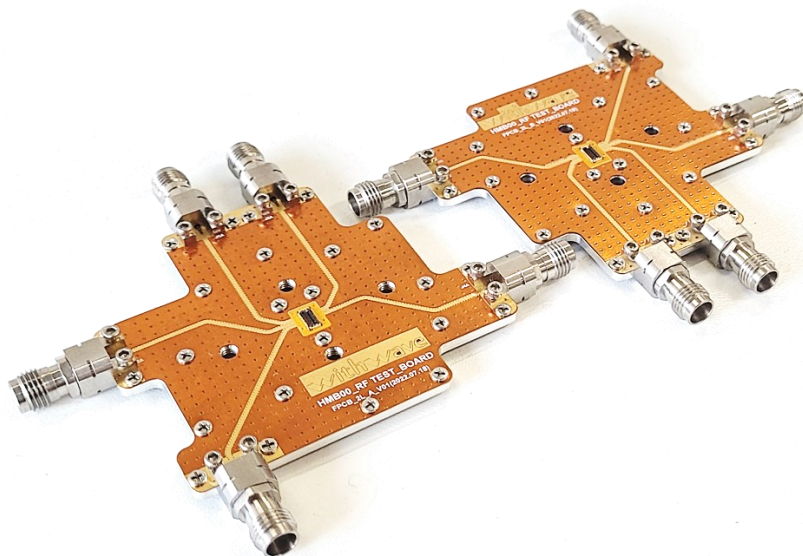
- Frequency Range : DC to 50 GHz
- Pitch : 0.35 mm
- Mated Height : 0.6 mm
- Width : 2.48 mm
- Number of Pins : 8 pins, 16 pins
- Excellent Insertion and Return loss performance
- Hermaphroditic mating interface
- Microstrip & Stripline application

## Application

- Smartphone
- Wearable device
- Array antenna
- Other wireless equipment

# Specification

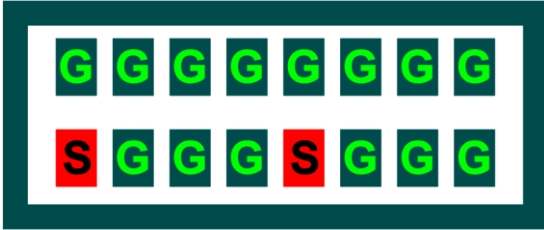
Scope	Items	Specification
Electrical	Freq. Range (Max)	50 GHz
	Impedance	50 $\Omega$
	VSWR	DC to 20 GHz : 1.5 Max 20 to 40 GHz : 1.8 Max 40 to 50GHz : 2.0 Max
	Contact Resistance	100 m $\Omega$ Max.
	Signal Rated Current	AC, DC 0.3A/Pin
	Insulation Resistance	100 m $\Omega$ Min.
	Withstanding Voltage	AC 100V for 1 minute
Mechanical & Environmental	Mating Durability	20 Mating Cycles
	Mating Force	1.4 N / Pin Max.
	Un-mating Force	0.15 N / Pin Min.
	Operating Temperature	-55 to +85 $^{\circ}$ C
Material	Contacts	High Performance Copper Alloy
	Shell	High Performance Copper Alloy
	Housing	High-Temperature LCP, UL94V-01



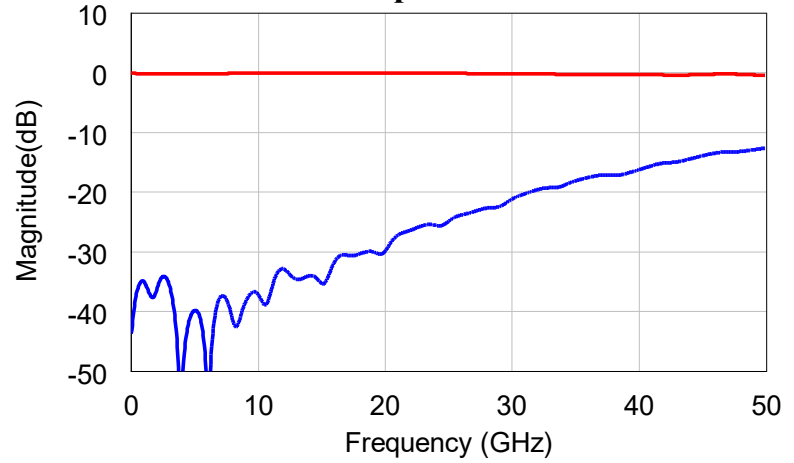


# Test Result

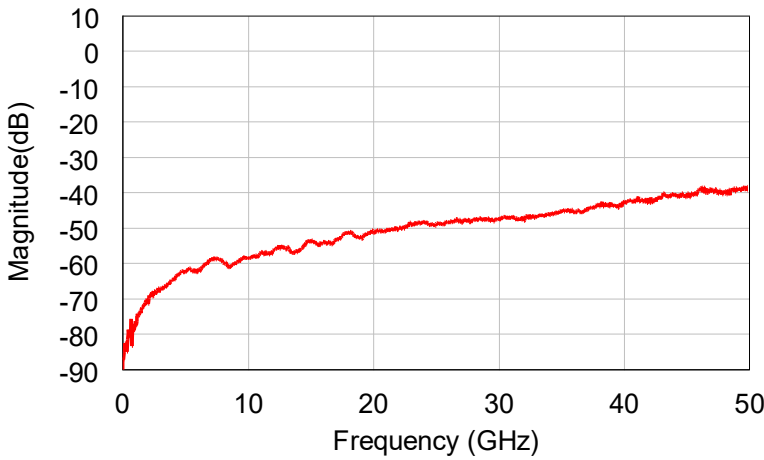
## Pin assignment



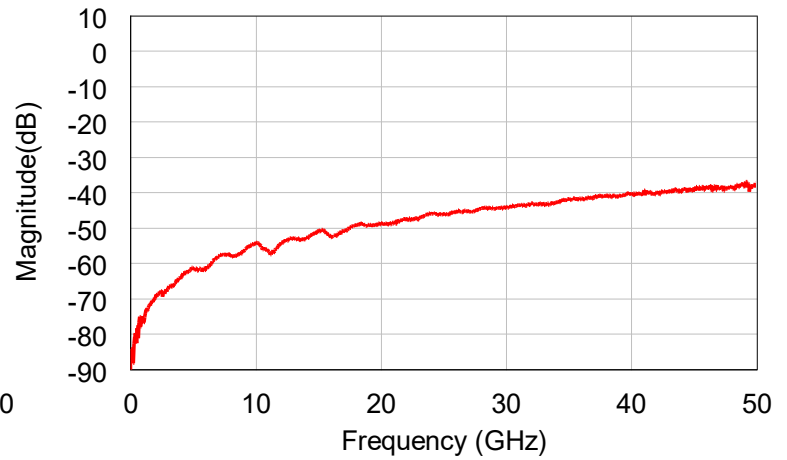
## S-parameter



## NEXT

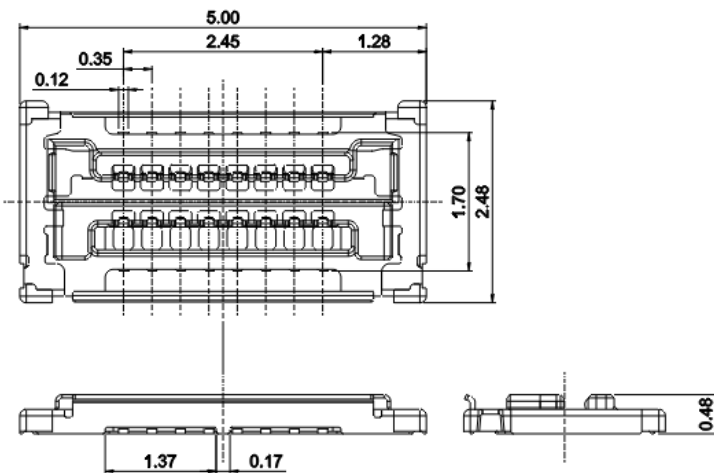


## FEXT

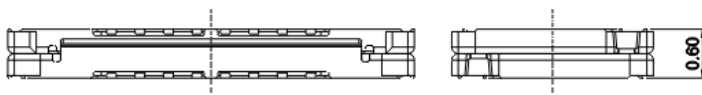


# Dimensions

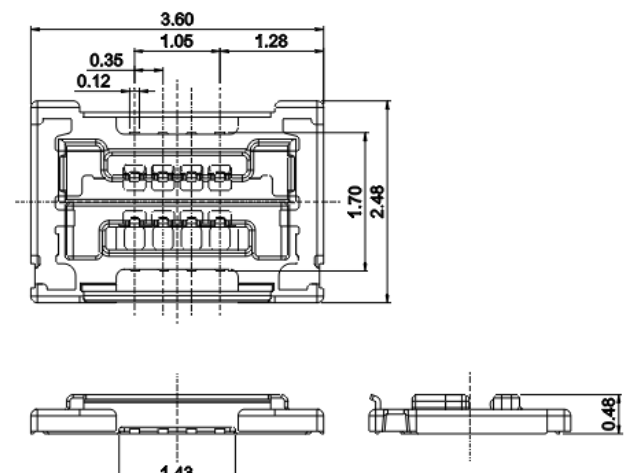
## 16 pin Dimensions



## Mated Dimensions



## 8 pin Dimensions



## Mated Dimensions

