

DB6050 50Ω 4W 60V DC~52GHz
2.4mm High Performance 50Ohm Stainless Steel DC~Block



Ver A/0 Release Date March, 2018

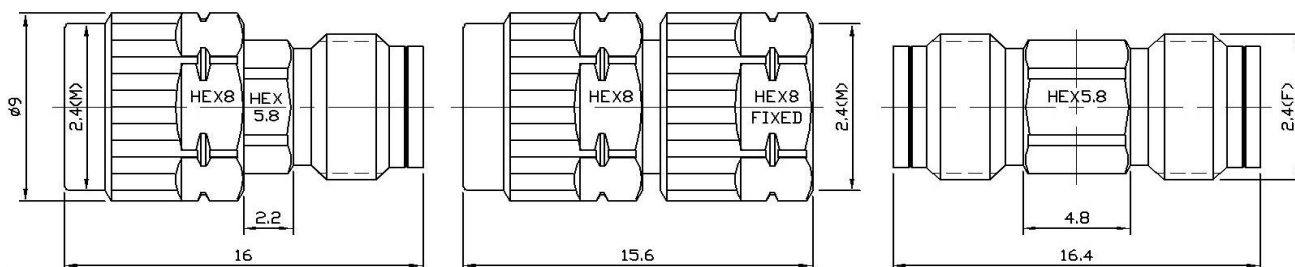
P/N:DB6050

Features

- DC~52GHz Frequency Range
- Max Power 5W
- VSWR < 1.52 < 1.35 < 1.23 < 1.16
C-Class B-Class A-Class S-Class

Applications

- Miniature Size
- 2.4mm Interfaces
- Ground Loop Elimination
- Signal to Noise Ratio(SNR)
- Improvement
- Test and Measurement



Mechanical & Environmental Specifications

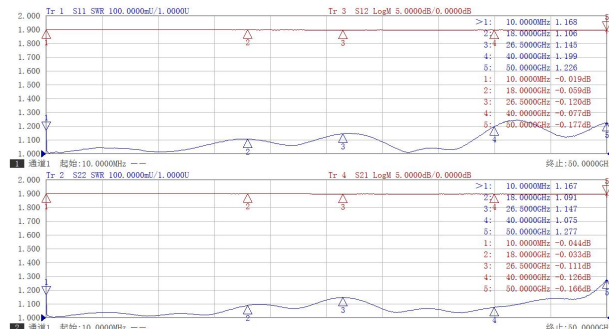
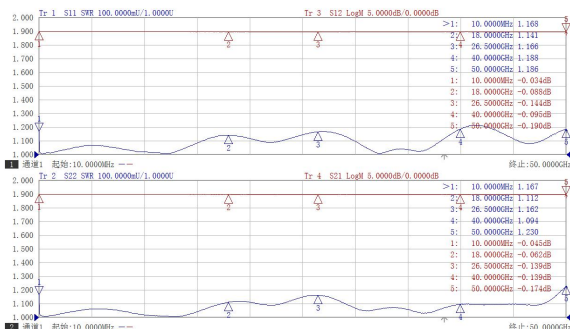
Outer Conductor Coupling Nut	Passivated Stainless Steel	Temp. Range	Storage	-55℃~125℃
Body	Passivated Stainless Steel	Working Temp.		-55℃~100℃
Inner Conductor Male	Beryllium Copper Gold plated($\geq 1.27\mu m$)	Altitude	Storage	< 15300 Meters
Female	Beryllium Copper Gold plated($\geq 1.27\mu m$)	Working Temp.		< 4800 Meters
Weight	3.5 g			

Electrical Specifications

Model	Frequency Range(GHz)	Insert Loss dB	Max average power (W)	DC max voltage (V)	VSWR(:1) Return Loss(dB)
DB6050-C	DC~50GHz	$\leq 0.10 \times \sqrt{f}(\text{GHz})$	1	60	< 1.52(-13.7)
DB6050-B	DC~50GHz	$\leq 0.07 \times \sqrt{f}(\text{GHz})$	2	60	< 1.35(-16.6)
DB6050-A	DC~50GHz	$\leq 0.06 \times \sqrt{f}(\text{GHz})$	3	60	< 1.23(-19.7)
DB6050-S	DC~50GHz	$\leq 0.04 \times \sqrt{f}(\text{GHz})$	4	60	< 1.16(-22.6)

C,B,A,S are average power of performance level.Temperature coefficient: $\pm 0.0002\text{dB}/^\circ\text{C}$;Power sensitivity: $\pm 0.001\text{dB}/\text{W}$,Up to 52.5ghz
 Maximum average power: the ambient temperature corresponding to the left or right end is 25 °C. When the ambient temperature rises to 100 °C, the power decreases linearly to 1 / 10

Remark:a.dimension mm, tol. $\pm 1\%$. b.100% test. c.Customized according to customer requirements



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