

## **DC-BLOCK**

# DCZ(M/F)24(M/F)24

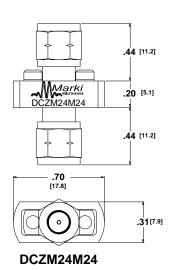
#### **Features**

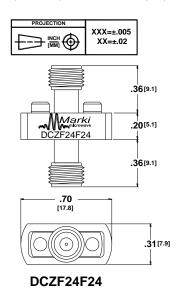
- 4 kHz to 50.0 GHz
- 2.40 mm Connectors
- Non-Resonant
- Low Insertion Loss
- Convenient easy-grip jacket for effortless loosening

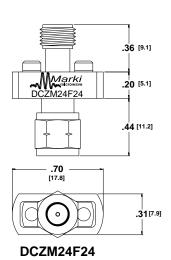
Electrical Specifications - Specifications guaranteed from -55 to 1000, meaning of the company o

Parameter	Frequency Range	Min C	Тур	Max
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Near DC Insertion Loss (dB)	2 kHz	8/80	3	
Insertion Loss (dB)	10165 181		.7	1.25
VSWR	sales fulai.		1.4	
Capacitance (µF)	MM.		1	
Rise Time (ps) <sup>1</sup>	4 kHz to 50 GHz		6	
Group Delay (ps)			75	
DC Voltage (V)				16
RF Power (W)				1

 $<sup>^{1}</sup>$ Specified as 90%/10%. Calculated from  $\tau_{balun}^{2} = (\tau_{out}^{2} - \tau_{in}^{2})$  with a 10 Gb/s input pattern.







#### **Part Number Options**

Please specify package style by adding to model number.			
Package Style(s)	Example		
DCZM24F24 (Male 2.40/Female 2.40)	DCZM24F24		
DCZM24M24 (Male 2.40/Male 2.40)			
DCZF24F24 (Female 2.40/Female 2.40)			

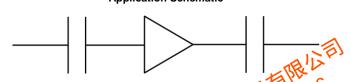


### **DC-BLOCK**

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## DCZ(M/F)24(M/F)24 4 kHz to 50.0 GHz

**Application Schematic** 



The DC blocks isolate the DC components of waveforms while minimating loss and groundelay ripple.

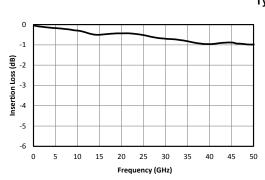
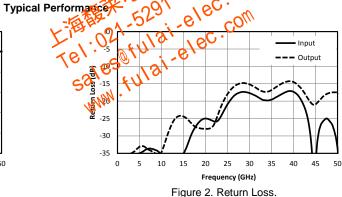


Figure 1. Insertion Loss.



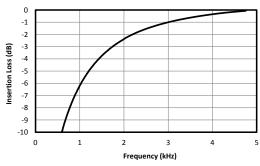


Figure 3. Near DC Insertion Loss.

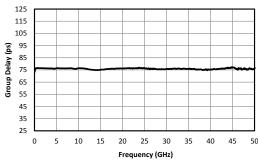
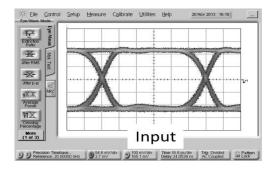


Figure 4. Group Delay.



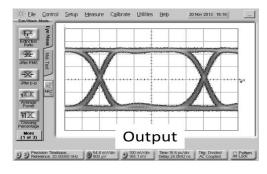


Fig. 5. Oscilloscope measurements of the DC block with a 10 Gb/s PRBS pattern. Eye diagrams are taken with a 2<sup>31</sup>-1 P PRBS input demonstrating minimal eye distortion/closure.

#### DATA SHEET NOTES:

1. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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