RF MISO
RF Microwave Solution

Waveguide Ortho-Mode Transducer(OMT) 170-260GHz
1.17mm(0.046inch) Circular Waveguide Common Port

Waveguide Ortho-Mode Transducer RM-WOMT4

Description

The RM-WOMT4 is a 170-260 GHz waveguide ortho-mode Transducer used to separate a signal at a common port into two linear orthogonal components located at the ports of a rectangular waveguide. It is widely used in high-end scientific research, satellite communications, radio astronomy, and radar systems.

Specifications

Parameters	Specification	Unit
Frequency Range	170-260	GHz
VSWR	3 Typ.	
Insertion Loss	1.9 Max	dB
Port to Port Isolation	35 Typ.	dB
Cross Pol. Isolation	30 Typ.	dB
Size	42.22*19.09*19.09	mm
Weight	0.092	Kg
Material, Finish	Cu, Gold Plated	
Power Handling,CW	8	W
Waveguide Type,Port 1	Rectangular	
Waveguide Size	WR4	
Waveguide Type,Port 2	Rectangular	
Waveguide Size	WR4	
Waveguide Type,Common Port	Circular	
Common Port WG Size	1.17(0.046)	mm(inch)
Common Port Flange	UG-387/U-M	
Operating Temperature	-55~85℃	

Website: www.rf-miso.com **Email**: info@rf-miso.com **Tel**: +86 028 82695327

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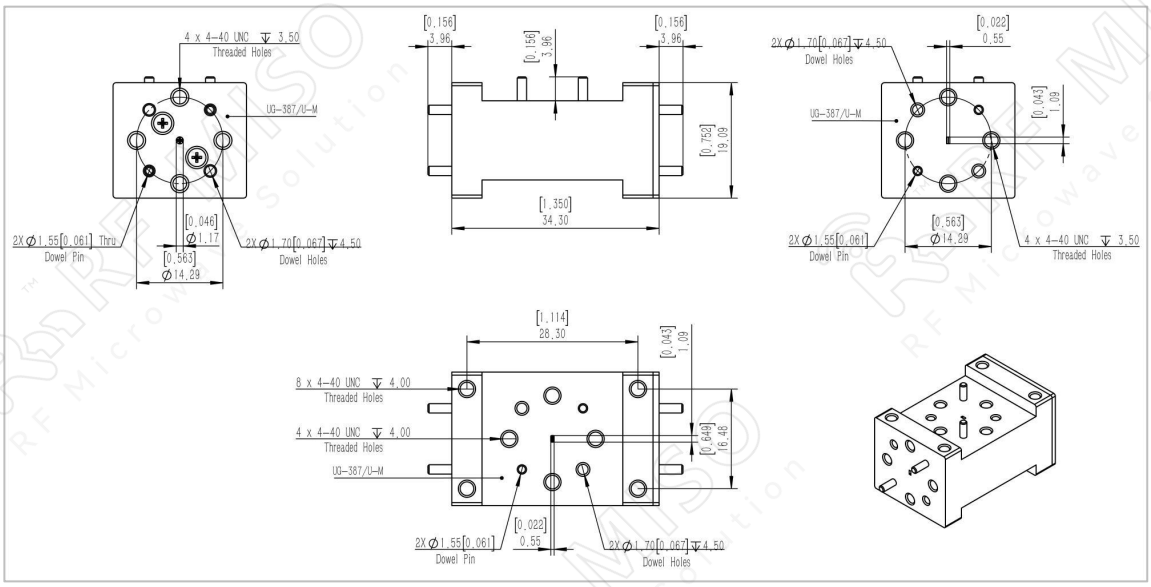
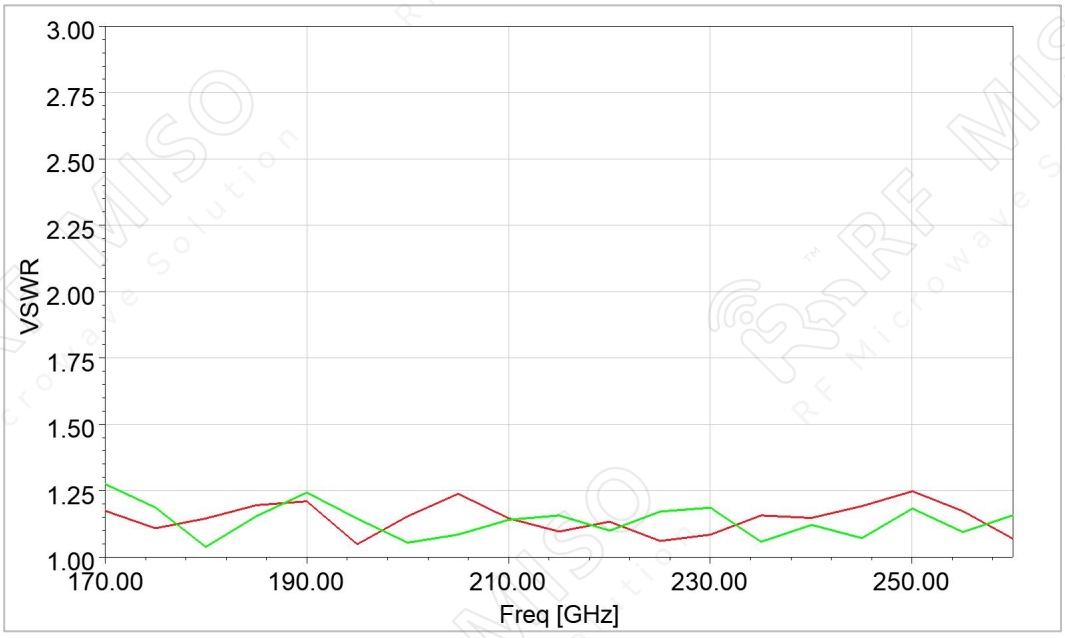
Outline Drawing



Simulated Results

VSWR



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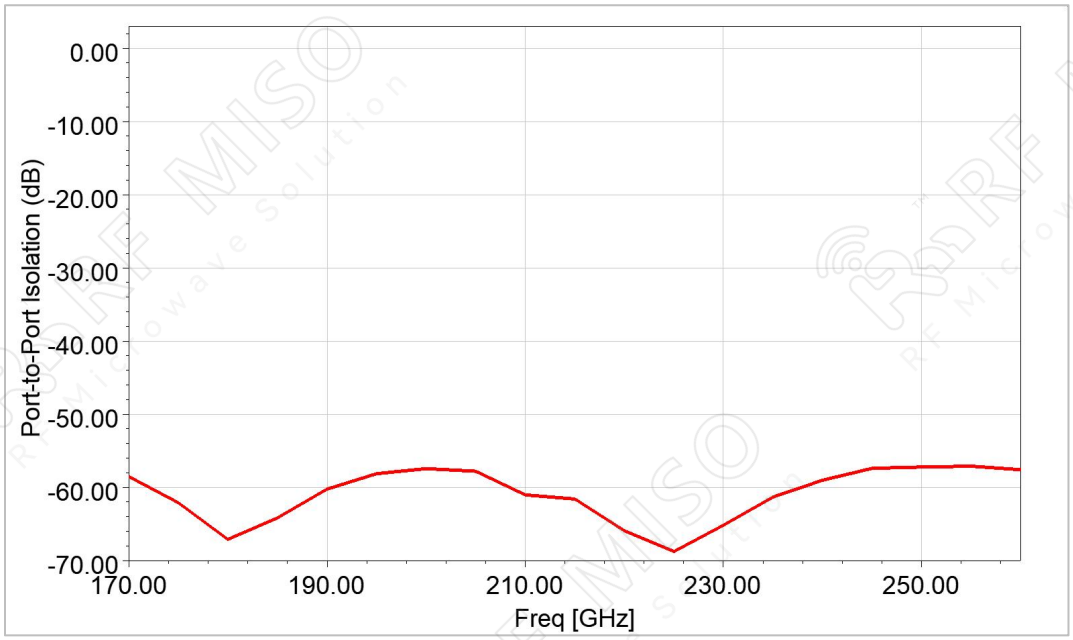
Isolation


0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
Port-to-Port Isolation (dB)
170.00
190.00
210.00
230.00
250.00
Freq [GHz]