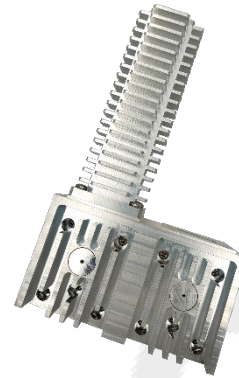


**Features**

- High power handling capability up to 300W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature
- LMDS multi-carrier operations
- High peak to average handling capability
- All specifications can be modified upon request



Parameter		Min.	Typ.	Max.	Units
Frequency Range			8.9-9.5		GHz
Insertion Loss	Port 1 -> Port 2		0.35	0.5	dB
	Port 2 -> Port 3		0.2	0.3	dB
Isolation	Port 2 -> Port 1	40	42		dB
	Port 3 -> Port 2	23	23.5		dB
	Port 3 -> Port 1	23	24		dB
	Port 1 -> Port 3	23	24		dB
VSWR				1.15	:1
Forward Handling	For circulator	> 300W CW, 60kW pulse			W
	For load	> 100W CW, 20kW pulse			W
Rotation		Clockwise (Standard) Counter Clockwise (upon request)			
Interface		WR90			
Flange Type		UG39/U			
Finish		Conductive Oxide			
Case Material		Aluminum Alloy			
Weight		33.6 Max.			ounces

**Note1 :**

Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss

Bandwidth (5 ~10) % x Center Frequency (Isolation >30dB)

Bandwidth (20~30) % x Center Frequency (Isolation >25dB)

Bandwidth (40~60) % x Center Frequency (Isolation >23dB)

Ask manufacture for detail

**Environmental Specifications**

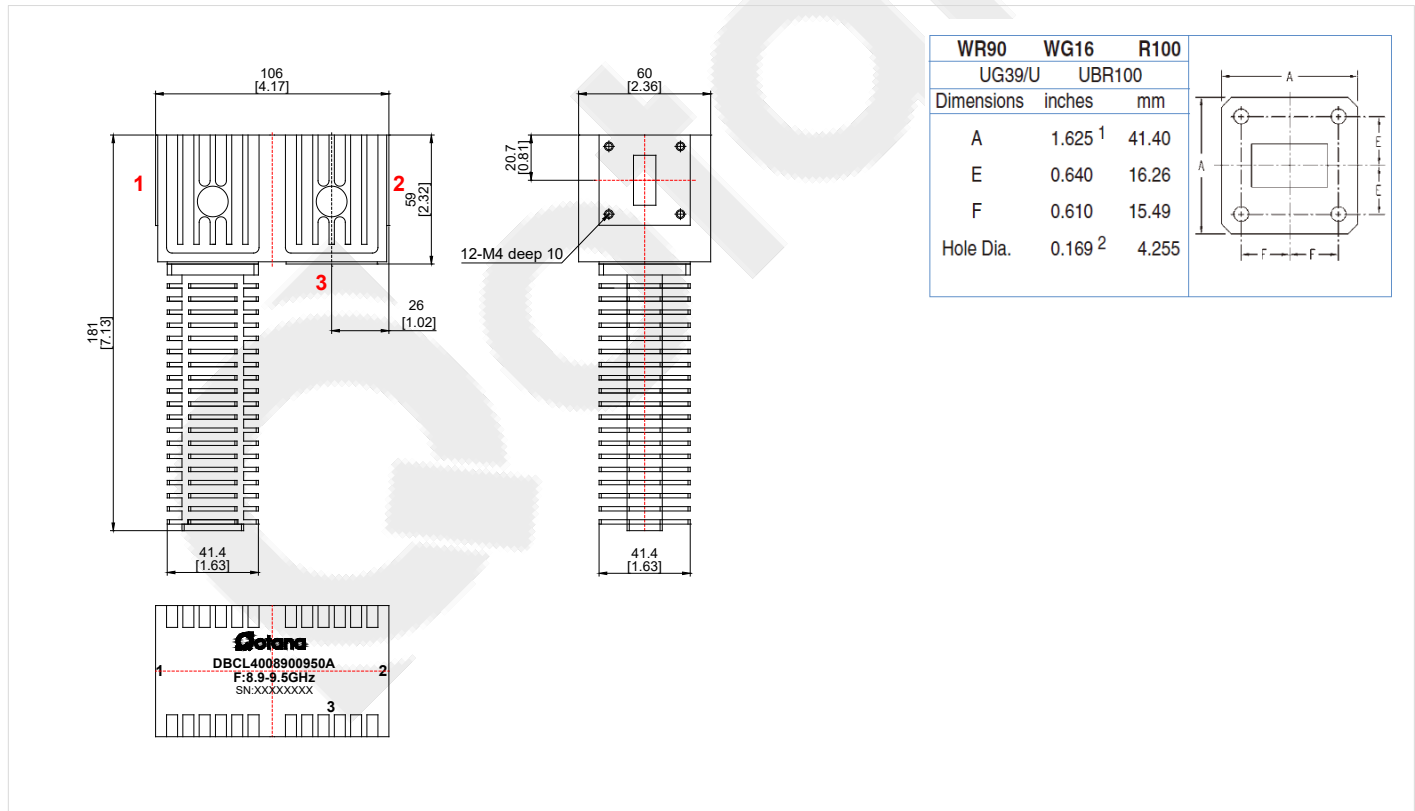
Operational Temperature	-20°C~+50°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions

**Outline Drawing:**

All Dimensions in mm(inches)

Outline Tolerances ±0.5(0.02)

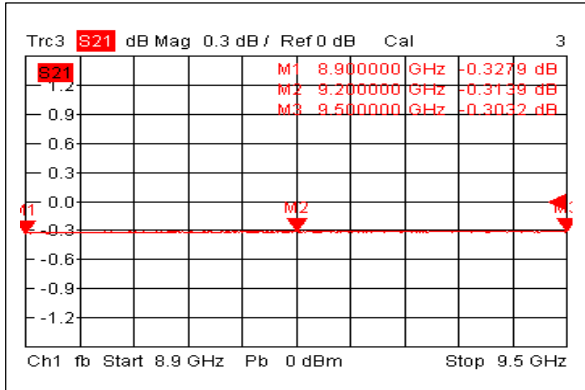
Mounting Holes Tolerances ±0.2(0.008)



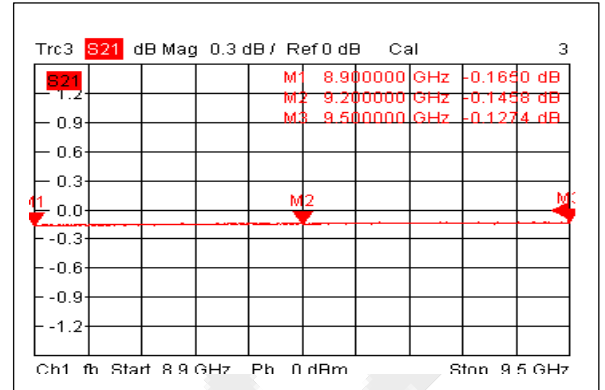
**Note:**

Due to the isolators and circulators belong to magnetic components, please far away from the magnetic matters by over 2 inches when you install or place.

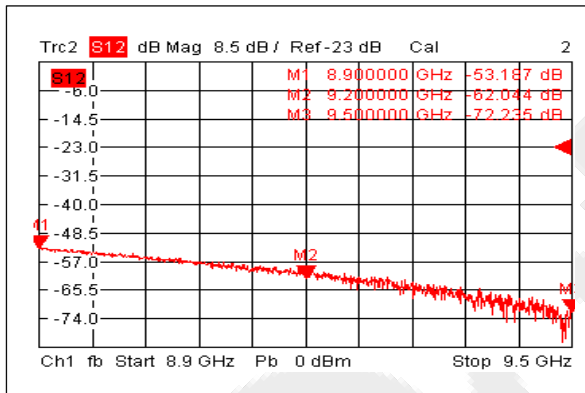
Insertion Loss (Port 1-Port 2)



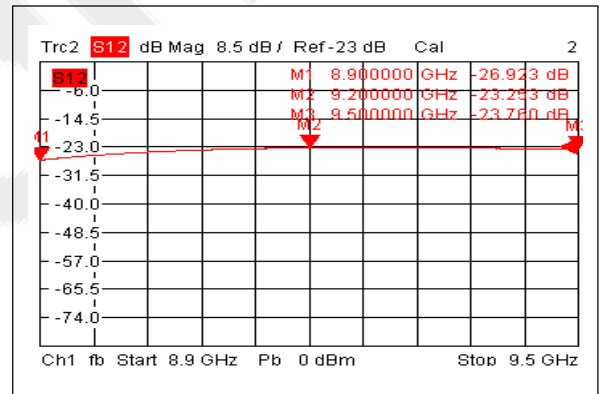
Insertion Loss (Port 2-Port 3)



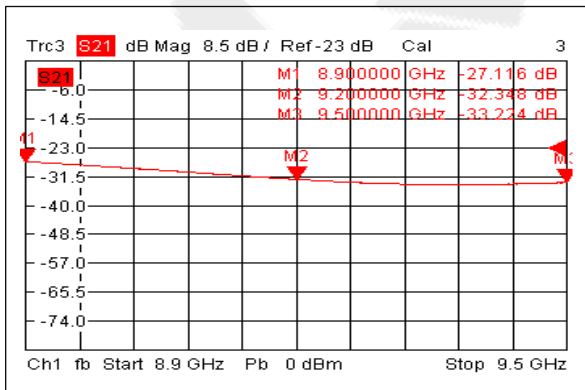
Isolation (Port 2-Port 1)



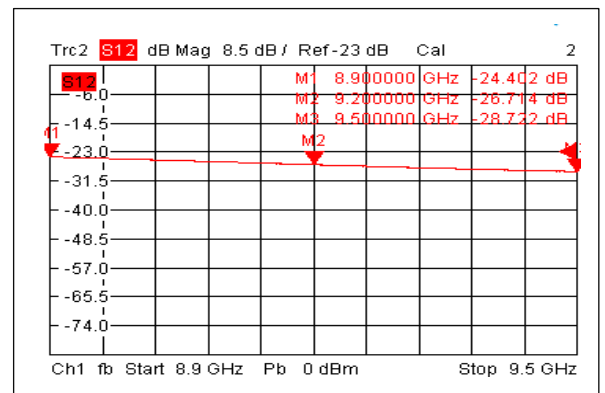
Isolation (Port 3-Port 2)



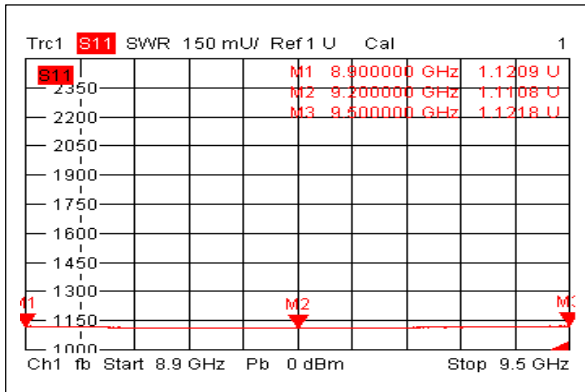
Isolation (Port 3-Port 1)



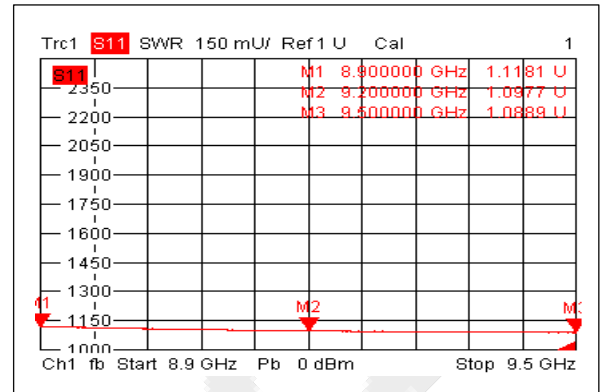
Isolation (Port 1-Port 3)



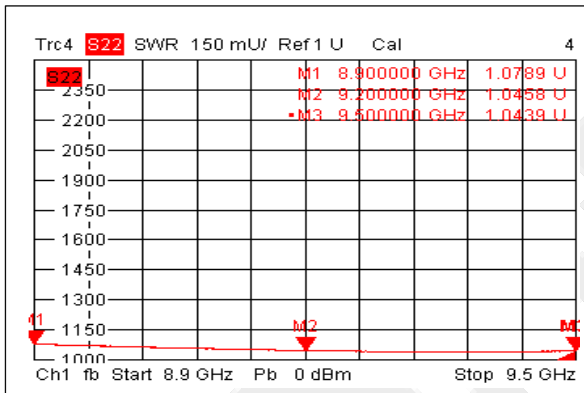
**VSWR 1**



**VSWR 2**



**VSWR3**



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