

Key Features:

- Wide operating frequency range from 2000 to 4000MHz
- 0.30dB typical insertion loss and 19dB typical reverse isolation
- 50 ohm SMA female coaxial connectors
- 100 Watts high CW power handling, 100 Watts reverse power termination
- -30~+50°C operating temperature range

Description:

F2114-0300-67 is a single junction coaxial isolator with SMA female coaxial connectors operating in the frequency range from 2.0GHz to 4.0GHz and offers 0.6dB maximum insertion loss and 18dB minimum reverse isolation at room temperature. The coaxial isolator can handle 100 watts of forward CW power and 100 watts of reverse power.

Electrical Specifications

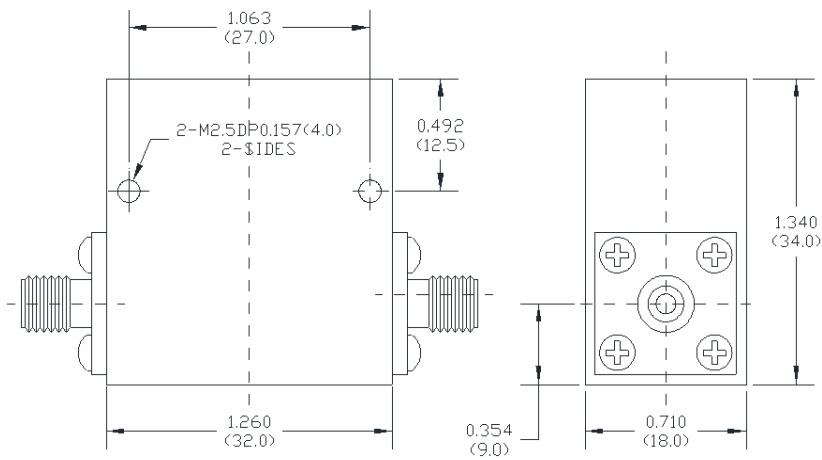
No.	Parameters	Units	Specifications		
			Minimum	Typical	Maximum
1	Frequency Range	GHz	2.0		4.0
2	Insertion Loss @ Room temp.	dB	-	0.30	0.60
2A	Insertion Loss over temp.				0.45
3	Reverse Isolation @ room temp.	dB	17.5	19.0	
3A	Reverse Isolation over temp.		16.5	18.0	
4	VSWR @ room temp.	-	-	-	1.40:1
4A	VSWR over temp.				1.50:1
5	Forward Power CW	Watts			100
6	Reverse Power CW	Watts			100*
7	RF Connectors	-	50 ohm SMA Female		
8	Signal Flow Direction	-	From Port 1 to Port 2		

Note: Proper heat dissipation required to keep the isolator body cool

Materials, Environmental & Mechanical Specifications

No.	Parameters	Specifications
1	Isolator Body	Aluminum
2	Magnetic Shunt/Shield	Steel, nickel plated
3	Connector Body	Brass, gold plated
4	Connector Center Contact	Beryllium Copper, gold plated
5	Insulator	PTFE(Teflon)
6	Operating Temperature	-30 to +50 °C
7	Survive Temperature	-55 to +125 °C
9	Outline Dimensions	1.260×1.734×0.710 inches ³ (32.0×44.0×18.0 mm ³)
10	Weight	3.30Z (92 grams)
11	RoHS & REACH Compliance	Yes

Mechanical Structure:



Note: All units in inches (mm).

Revision History:

Revision	Date	Description	Comments
A00	04/08/2024	Initial Release	