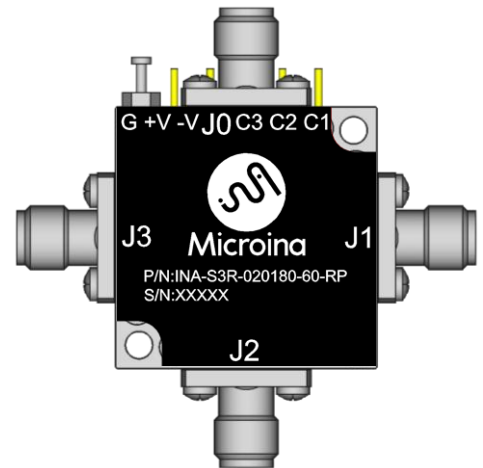


FEATURES:

- Discrete Design Utilizing High Performance Pin Diodes
- Broadband Performance
- Low Loss
- High Isolation
- High Speed
- Internal Regulator
- Reverse Voltage Protection
- Humidity Protected Mechanical Package


ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Operating Frequency	2		18	GHz
Impedance		50		Ohms
Input VSWR			2:1	
Output VSWR			2:1	
Insertion Loss (2-10 GHz)		1.2	1.6	dB
Insertion Loss (10-18 GHz)		1.7	2.2	dB
Isolation (2-10 GHz)	70	75		dB
Isolation (10-18 GHz)	60	65		dB
Rise/Fall Time (10% to 90% RF, 90% to 10% RF)		10		ns
ON/OFF Time (50% TTL to 90% RF, 50% TTL to 10% RF)		50		ns
Positive Power Supply (V _{CC})	+4.8	+5	+6	V
Negative Power Supply (V _{EE})	-15	-5	-4.8	V
V _{CC} Current (2 Paths OFF)		+100		mA
V _{CC} Current (All Paths OFF)		+150		mA
V _{EE} Current (1 Path ON)		-25		mA
Control Inputs (C1,C2)	TTL / Floating High 0V-0.8V: Low, 2.2V-5V: High			
Switching States	C1-Low, C2-High, C3-High: J0-J1:ON, J0-J2:OFF, J0-J3:OFF C1-High, C2-Low, C3-High: J0-J1:OFF, J0-J2:ON, J0-J3:OFF C1-High, C2-High, C3-Low: J0-J1:OFF, J0-J2:OFF, J0-J3:ON C1-High, C2-High, C3-High: J0-J1:OFF, J0-J2:OFF, J0-J3:OFF			

*Electrical specifications are given at 25°C.

ABSOLUTE MAXIMUM RATING:

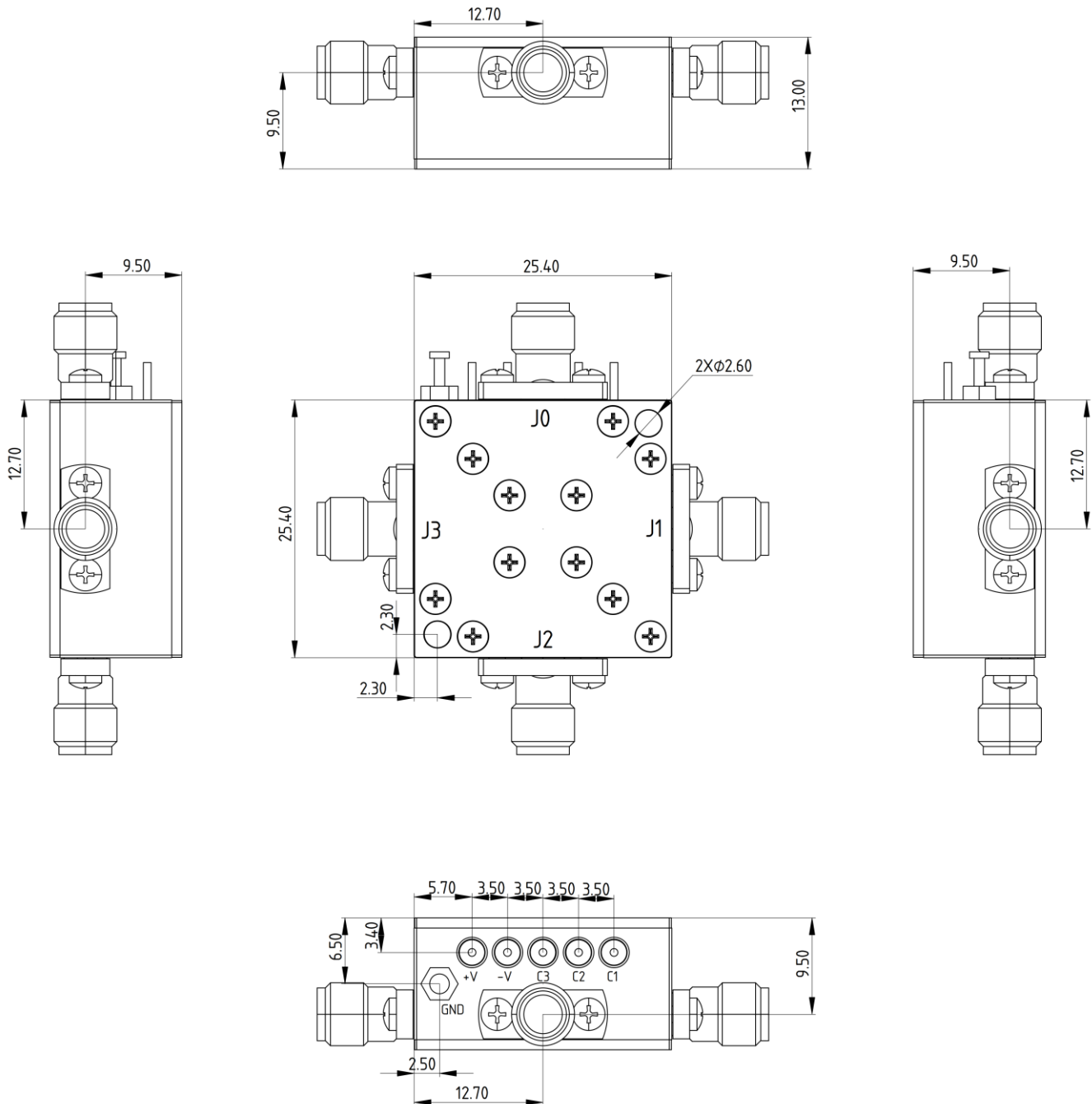
Parameter	Min.	Typ.	Max.	Units
Operating RF Input Power, CW			+30	dBm
Operating Case Temperature	-40		+85	°C
Storage Temperature	-55		+125	°C

MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Dimensions (L x W x H)	25.4 x 25.4 x 13	mm
Material	Aluminum (Electroless Nickel Plated)	
RF Connectors: J0, J1, J2, J3	SMA, Female	
Control Connectors: C1, C2, C3	0.03" Solder-In Type Feedthrough	

MECHANICAL OUTLINE:

- All dimensions are in mm
- Tolerances: +/- 0.2 mm



REVISION HISTORY:

Rev. No.	Date	Description
P1	23-Aug-2025	Preliminary Release