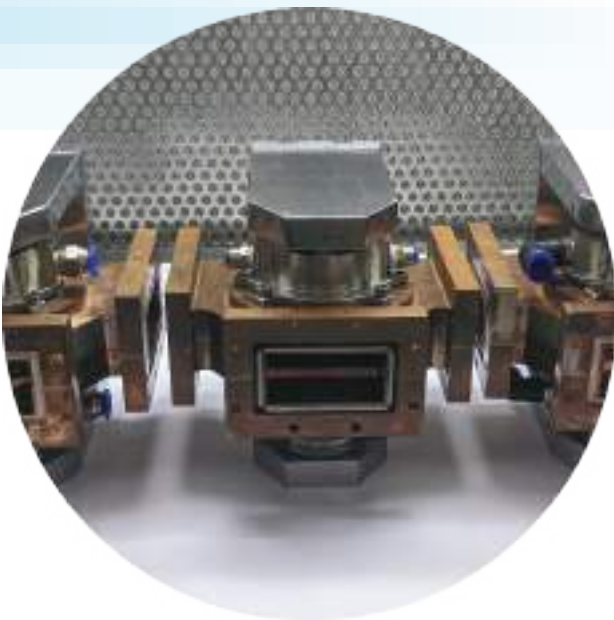




S-Band 3.1 MW 3-Port Circulator

Circulator is a passive non-reciprocal device in which the RF wave entering at a port is transmitted to the next port but not in vice-versa. Circulator is required in high power microwave systems, such as radar transmitter, linear accelerator (linac) etc. SAMEER Guwahati has successfully designed, developed and tested 3-port S-band circulator at 2856 and 2998 MHz.



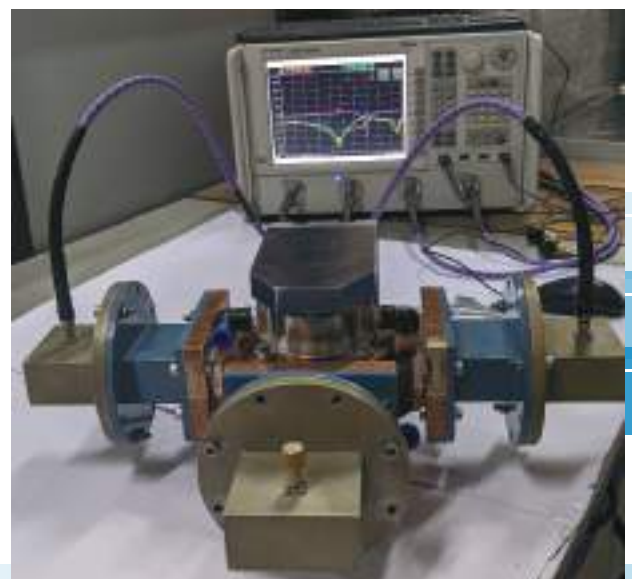
Specifications	Value
Centre frequency	2856 MHz, 2998 MHz
Return loss	≥ 26 dB
Insertion loss	≤ 0.25 dB
Isolation	≥ 26 dB
Bandwidth	≥ 20 MHz
Peak/Average power	3.1 MW/3.1 kW

Features

- Compact
- Low loss
- High Isolation
- No Reflection
- Above resonance design
- Rugged
- Reliable for High Power Operation

Applications

Linear Accelerators, Radar Systems, High Power Microwave Systems





S-Band 2.45 GHz 6 kW CW Isolator

Isolator is a passive non-reciprocal device which allows only one-way transmission of RF power. 2.45 GHz CW Isolators are essential in high power industrial microwave systems, such as MPECVD system for lab grown diamond, microwave assisted rubber/wood/paper processing industries etc. SAMEER Guwahati has successfully designed, developed and tested a 2450 ± 25 MHz CW Isolator by combining a 3-port circulator and a compact RF waveguide.



Specifications	Value
Centre frequency	2450 MHz
Return loss	≥ 26 dB
Insertion loss	≤ 0.2 dB
Isolation	≥ 26 dB
Bandwidth	± 25 MHz
Power	6 kW CW

Features

- Compact
- Economical
- Low loss
- High Isolation
- No Reflection
- Above resonance design
- Rugged
- Reliable for High Power Operation

Applications

MPECVD system for lab grown diamond, Medical disinfection system, microwave assisted rubber/bamboo/wood/paper processing industries

