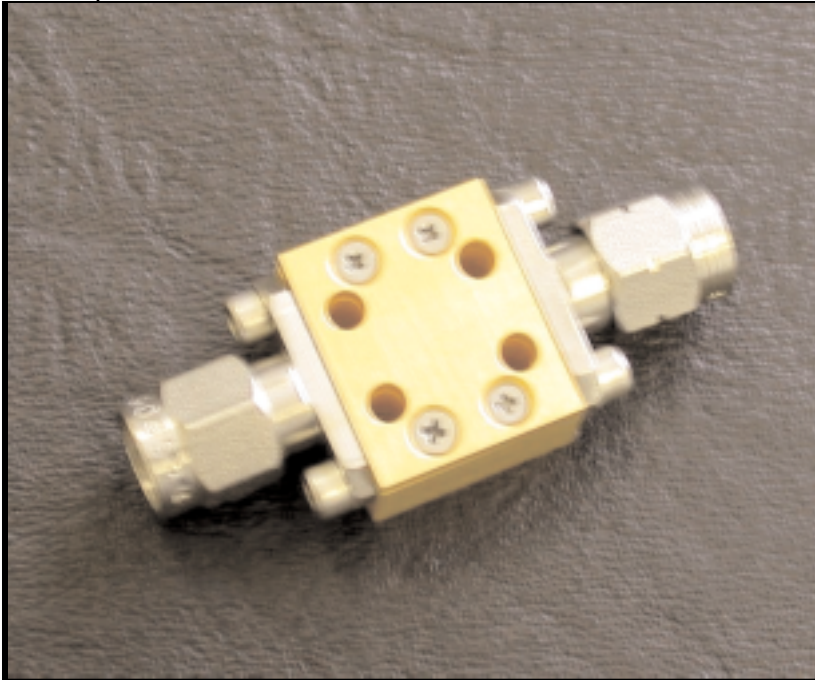




## 40 GHz BANDPASS CERAMIC FILTER

### Optical Communication Systems



#### FEATURES

- Fabricated on Alumina substrate using thin film technology
- Center Frequency 40 GHz
- Low Insertion Loss in the Pass Band < 2 dB
- High Rejection in the Stop Bands > 30 dB
- Low cost if built at large quantities
- Customs design:
  - Insertion loss < 0.5 dB
  - Rejection > 50 dB

#### PACKAGING

- Input/Output Connectors K or V

#### APPLICATIONS

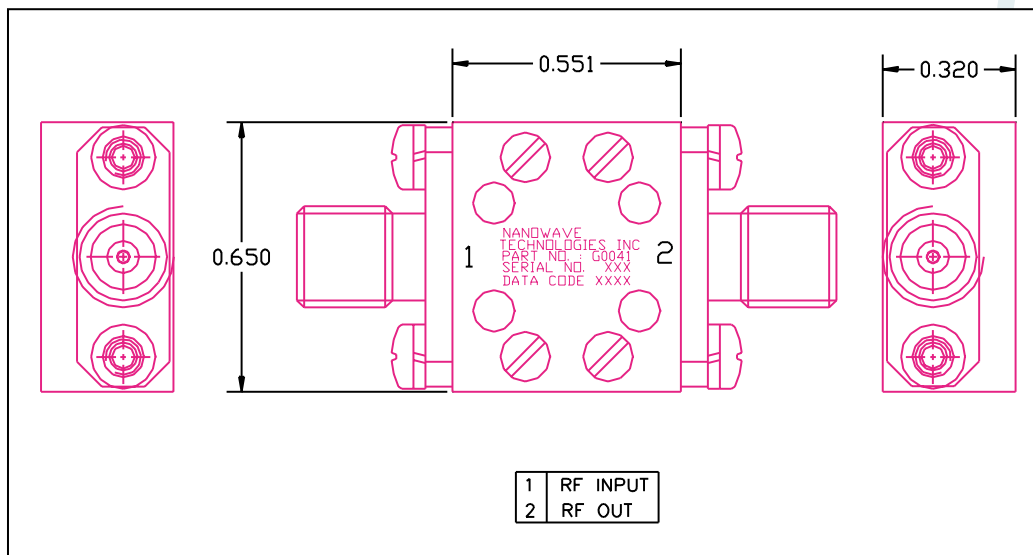
- Clock recovery circuit for OC768
- Millimeter wave systems
- Point-to-point and point-to-multipoint radios

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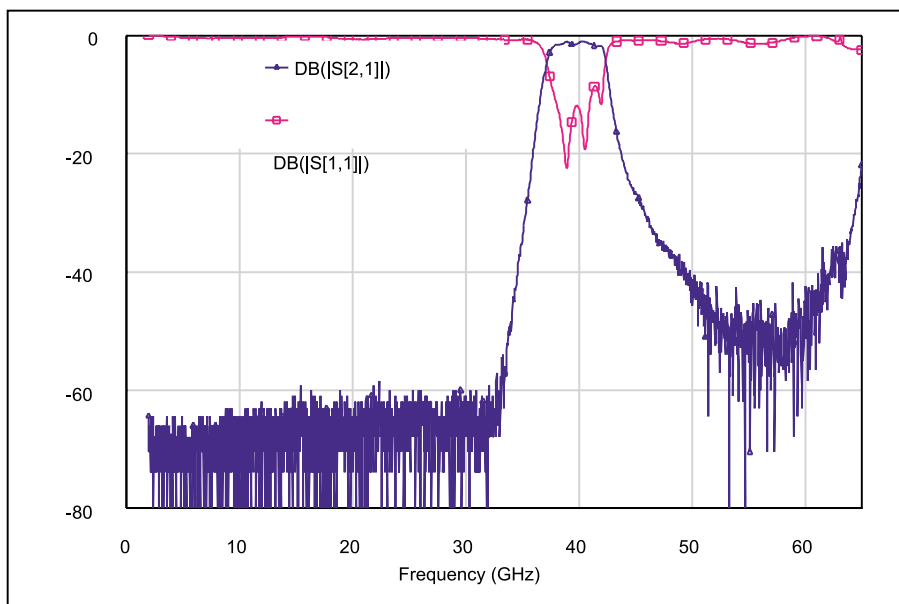
## OUTLINE DIAGRAM



## CHARACTERISTICS

PARAMETER	UNITS	SPECS	MEASURED	COMPLIANCE
Center Frequency	GHz	40	40	YES
Insertion Loss	dB	< 2	<1.5	YES
Rejection	dB			
@ 10 GHz		> 30	> 60	YES
@ 20 GHz		> 30	> 60	YES
@ 60 GHz		> 30	> 40	YES
Ripple	dB	< 0.5	< 0.5	YES
VSWR		< 1.8	< 1.7	YES

## Measure Frequency Response of Filter



Specifications are subject to change without notification. Consult Nanowave Technologies, Inc. for specific applications/requirements.