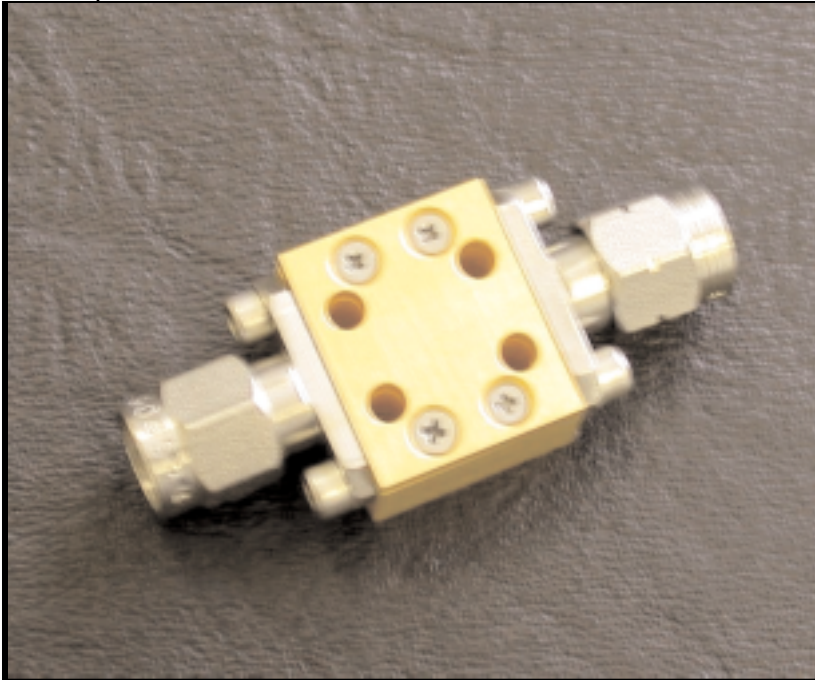




40 GHz BANDPASS CERAMIC FILTER

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

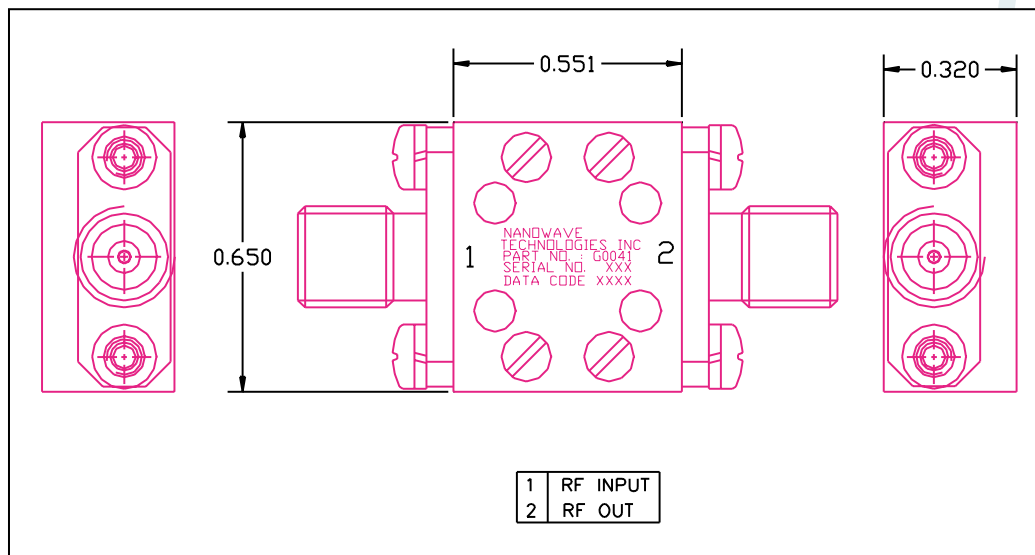
- Clock recovery circuit for OC768
- Millimeter wave systems
- Point-to-point and point-to-multipoint radios

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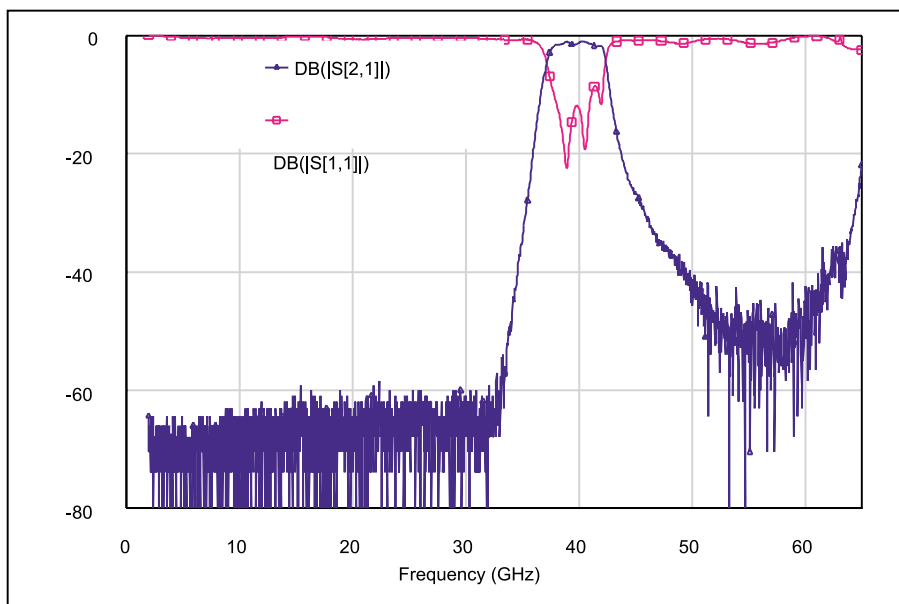
OUTLINE DIAGRAM



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.