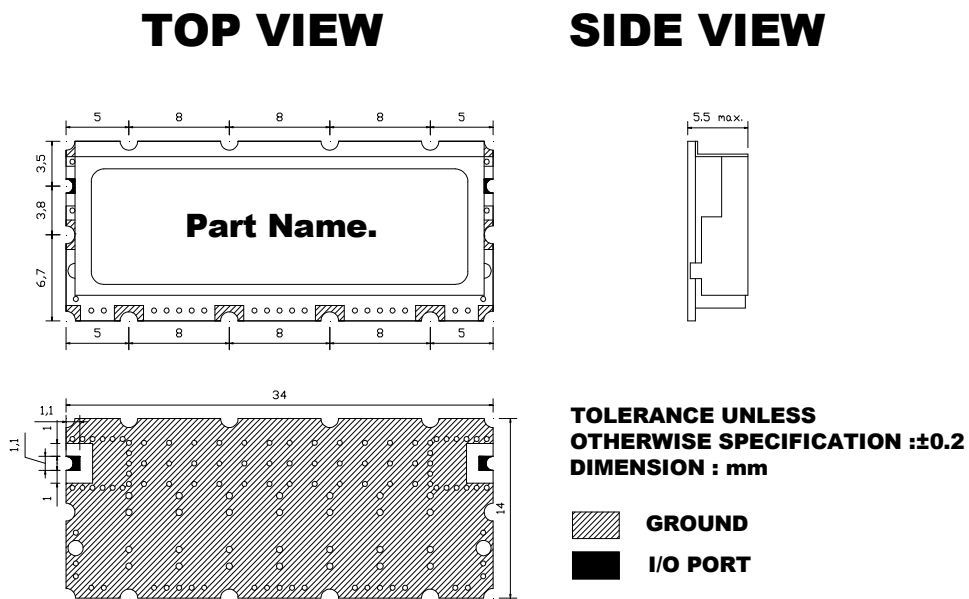


Ceramic Bandpass Filter IFD35001

Features

- Ceramic bandpass filter
- 50Ω single-ended operation
- Surface Mounted Module Package (34mm × 14mm × 5.5mm)


Package Dimensions



Maximum Ratings

| Parameter | Unit | Minimum | Typical | Maximum |
|-----------------------------|------|---------|---------|---------|
| Operating Temperature Range | ℃ | -40 | 25 | 85 |
| Storage Temperature Range | ℃ | -40 | 25 | 85 |
| Power Handling Capability | dBm | - | - | 30 |

Electrostatics Sensitive Device (ESD)

| | | | | |
|---|---|-----------|------------|-----|
|  | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | IFD35001 | |
| | | Rev. Date | 2014-08-06 | |
| | | Rev. | AS 01 | 1/4 |

Ceramic Bandpass Filter IFD35001


Preliminary Specifications

F_o = 3500 MHz

| | Minimum | Typical | Maximum | Unit |
|-------------------------------------|---------|---------|---------|------|
| Center Frequency (F _o) | - | 3500 | - | MHz |
| Insertion Loss (3350 ~ 3650 MHz) | - | 2.0 | 3.0 | dB |
| Amplitude Ripple (3350 ~ 3650 MHz) | - | 0.5 | 1.0 | dB |
| Return Loss (3350 ~ 3650 MHz) | 12 | 15 | - | dB |
| Relative Attenuation | | | | |
| 0.3 ~ 3100 MHz | 60.0 | 62.0 | - | dB |
| @ 3150 MHz | 50.0 | 55.0 | - | |
| @ 3750 MHz | 30.0 | 35.0 | - | |
| @ 3850 MHz | 50.0 | 55.0 | - | |
| @ 3950 MHz | 60.0 | 65.0 | - | |
| 4500 ~ 6400 MHz | 70.0 | 72.0 | - | |
| Input/Output Impedance | | 50 | | Ohm |

Notes :

- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements are measured relative to insertion loss

| | | | | |
|---|---|-----------|------------|-----|
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| | | Rev. | AS 01 | 2/4 |

Ceramic Bandpass Filter IFD35001

Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)




Marking Configuration

Part Name. ¹⁾

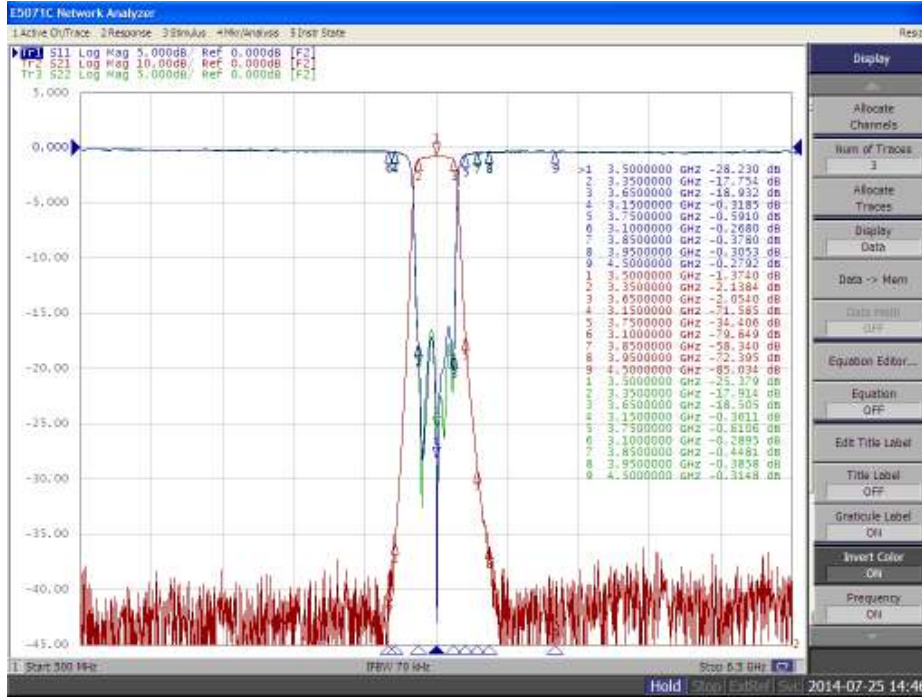
1) Part Number


* Ink or Laser Marking available

| | | | | |
|---|---|-----------|------------|-----|
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| | | Rev. Date | 2014-08-06 | |
| | | Rev. | AS 01 | 3/4 |

Ceramic Bandpass Filter IFD35001

Typical Performance (at 25 °C)



| | | | | |
|---|---|-----------|------------|-----|
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| | | Rev. Date | 2014-08-06 | |
| | | Rev. | AS 01 | 4/4 |