

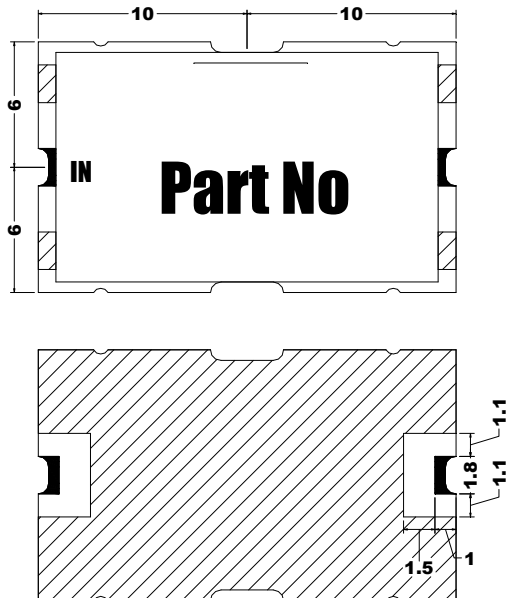
# LC Bandpass Filter IFL01212

## Features

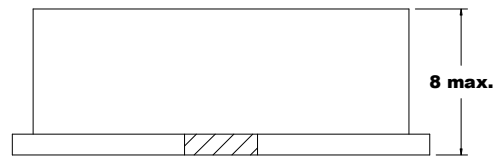
- LC bandpass filter
- 50Ω single-ended operation
- Surface Mounted Package ( 20mm × 12mm × 8.0mm )

## Package Dimensions

### TOP VIEW



### SIDE VIEW




**TOLERANCE UNLESS  
OTHERWISE SPECIFIED : ±0.3  
DIMENSIONS : mm**

 **GROUND**  
 **I/O PORT**

## Maximum Ratings

| Parameter                   | Unit | Minimum | Typical | Maximum |
|-----------------------------|------|---------|---------|---------|
| Operating Temperature Range | ℃    | -30     | 25      | 70      |
| Storage Temperature Range   | ℃    | -40     | 25      | 85      |
| Power Handling Capability   | Watt | -       | -       | 2       |

Electrostatics Sensitive Device (ESD)

|   |   |           |            |     |
|---|---|-----------|------------|-----|
|  | <b>ITF Co., Ltd.</b><br>102-901, Bucheon Technopark 364,<br>Samjeong-Dong, Ojeong-Gu, Bucheon-City,<br>Gyeonggi-Do, Korea 421-809 | Part No.  | IFL01212   |     |
|   |   | Rev. Date | 2014-08-26 |     |
|   |   | Rev.      | AS 01      | 1/4 |

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## Specifications

F<sub>0</sub> = 125 MHz

|                                     | Minimum | Typical | Maximum | Unit |
|-------------------------------------|---------|---------|---------|------|
| Center Frequency ( F <sub>0</sub> ) | -       | 125     | -       | MHz  |
| Insertion Loss (110~ 140MHz)        | -       | 1.8     | 2.0     | dB   |
| Amplitude Ripple (110~ 140MHz)      | -       | 0.3     | 0.5     | dB   |
| Return Loss (110~ 140MHz)           | 15      | 20      | -       | dB   |
| Relative Attenuation<br>@ 250 MHz   | 40.0    | 43.0    | -       | dB   |
| 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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## Matching Schematic

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




## Marking Configuration

Part No <sup>1)</sup>

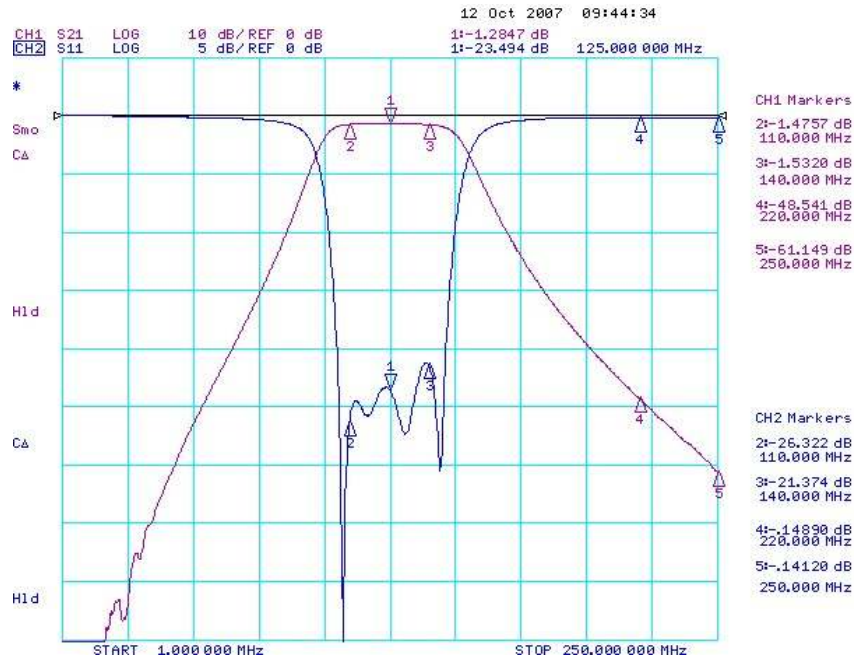
1) Part Number


\* Ink or Laser Marking available

|   |   |           |            |     |
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## Typical Performance ( at 25°C )



|   |   |           |            |     |
|---|---|-----------|------------|-----|
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