**SPECIFICATIONS:**

- **Center Frequency:** 21.4 MHz
- **Passband 1. Loss:** 1.5 dB (Max)
- **Passband:** 19.6 - 23.2 MHz
- **20 dB Bandwidth:** 14.9 - 27.8 MHz
- **40 dB Bandwidth:** 6.80 - 64.2 MHz
- **Input Power:** 1 Watt (Max)
- **Impedance:** 50 Ohms
- **Operating Temp. Range:** -20° to +70° C

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**MECHANICAL OUTLINE: 102S**

**PIN-OUT**

- Input: 1
- Output: 8
- Case Ground: All Others

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**LAYOUT FOR PRINTED CIRCUIT DESIGN**
BAND PASS FILTER
MODEL FIS-21.4

OPTIMIZED BANDWIDTH  
$F_c = 21.4\,\text{MHz}$

PERFORMANCE PLOTS

- **Group Delay (nSec)**
  - Frequency (MHz) range: 19.6 to 23.2
  - Plot shows group delay variation across the bandwidth.

- **Insertion Phase Shift (Deg)**
  - Frequency (MHz) range: 19.6 to 23.2
  - Plot illustrates phase shift changes across the frequency range.

- **Passband Insertion Loss (dB)**
  - Frequency (MHz) range: 19.6 to 23.2
  - Plot displays insertion loss within the passband.

- **Return Loss (dB)**
  - Frequency (MHz) range: 19.6 to 23.2
  - Plot shows input and output return loss in dB across the frequency band.

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