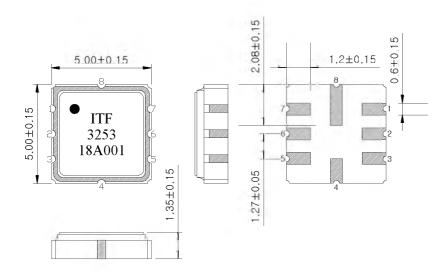


Features

- RF bandpass filter
- Usable bandwidth 4.0 MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (5.0mm * 5.0mm)
- RoHS/RoHS2 (2015/863/EU) Compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic Lid : Kovar, Ni Plated

Terminations : Au plating $0.3 \sim 1.0$ um, Over a $1.27 \sim 8.89$ um

Ni Plating

| Pin Configuration | | |
|-------------------|--------|--|
| 2 | Input | |
| 6 | Output | |
| 1, 3, 4, 5, 7, 8 | Ground | |

Maximum Ratings

| Parameter | Unit | Minimum | Typical | Maximum |
|-----------------------------|------|---------|---------|---------|
| Operating Temperature Range | °C | -40 | 25 | 80 |
| Storage Temperature Range | °C | -40 | - | 85 |
| Power Handling Capability | dBm | - | - | 10 |



Specifications

Fc = 325.0 MHz

| | | Minimum | Typical | Maximum |
|--|-----|----------|----------|---------|
| Center Frequency (Fc) | MHz | - | 325 | - |
| Insertion Loss (Fc ± 2.0 MHz) | dB | - | 2.0 | 3.5 |
| Amplitude Ripple (Fc ± 2.0 MHz) | dB | - | 0.6 | 1.5 |
| VSWR (Fc ± 2.0 MHz) | | - | 1.5 | 2.0 |
| Absolute Attenuation | | | | |
| 225.0 ~ 305.0 MHz 350.0 ~ 425.0 MHz | dΒ | 35 35 | 45 50 | 1 |

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



Matching Schematic

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



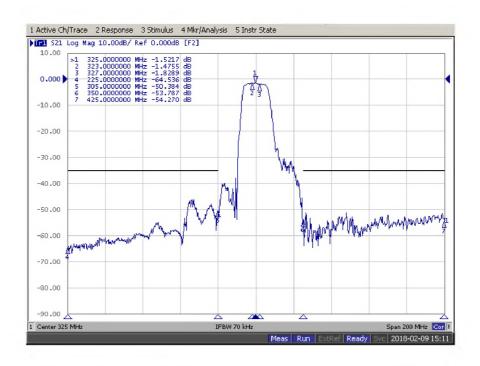
Marking Configuration

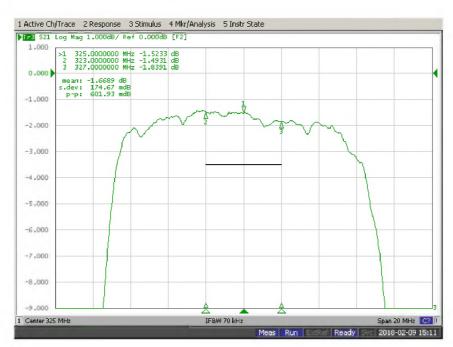
• 1)
ITF 2)
3253 3)
18A001 4)

- 1) Pad Number 1 Index
- 2) Manufacturer name
- 3) Marking Number
- 4) Lot Number
 - * Ink or Laser Marking available



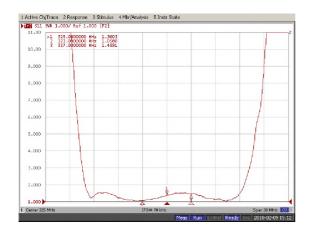
Typical Performance (at 25°C)

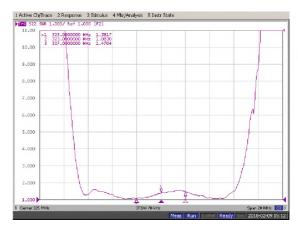




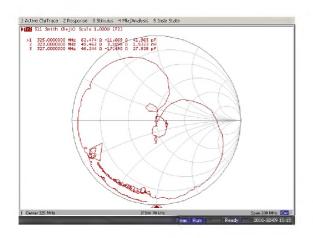


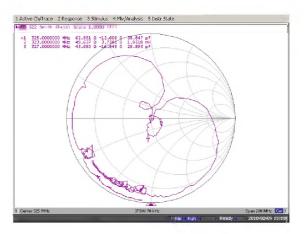
Input / Output VSWR Charts





Input / Output Smith Charts



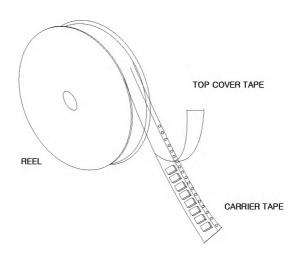




Packing Specification

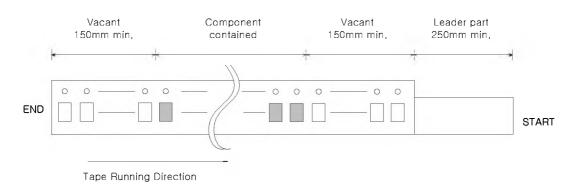
1. Reeling Quantity: 1000 pcs / reel

2. Taping Structure: The tape shall be wound around the reel in the direction shown below.



Tape Specification

1. Leader part and vacant position specification



2. Tensile strength of carrier tape

4.4N/mm width

Direction of pull

3. Top cover tape adhesion

1) pull off angle : 0~15°

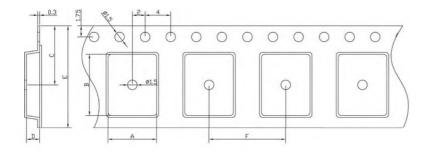
2) speed : 300mm/min

3) force : 20~70g

Carrier tape

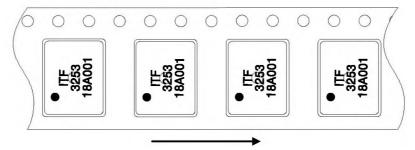


Carrier Tape Dimensions [unit: mm]



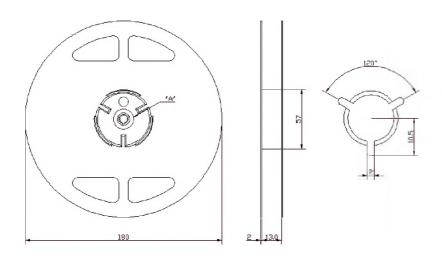
| A | 5.50 ± 0.1 |
|---|-----------------|
| В | 5.50 ± 0.1 |
| C | 7.25 ± 0.1 |
| D | 1.95 ± 0.1 |
| Е | 12.00 ± 0.1 |
| F | 8.00 ± 0.1 |

Part Direction



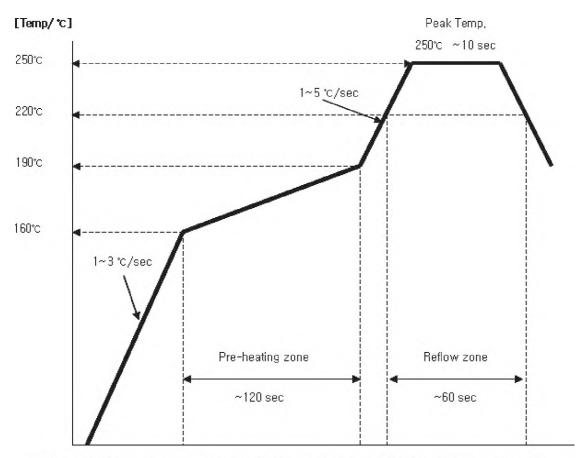
Tape Running Direction

Reel Dimensions [unit:mm]





Reflow Condition



Comment) The quality is guaranteed under this temperature conditions on 2 times solder reflows

Cautions

1. This is a hermetic device.

MSL (Moisture Sensitive Level) is the 1st level

2. This is an electrostatic sensitive device. Please avoid static voltage during operation and storage.

ESD (Electrostatic Discharge) Rating is class 0. (Test: HBM-Human Body Model)

- 3. Ultrasonic cleaning shall be avoided.
- 4. This device should not be used in any type of fluid such as water, oil, organic solvent, etc.