

Specification Goal

# Preliminary Specification

Chip Multilayer LC Filter (HIGH PASS FILTER)

LFH321G55RE1R712

Jan.29<sup>th</sup>. 2013

## Change History

| Revision No. | Date         | Author     | Comment |
|--------------|--------------|------------|---------|
| -            | Jan.29. 2013 | M. SHIBUYA | Initial |
|              |              |            |         |
|              |              |            |         |
|              |              |            |         |
|              |              |            |         |
|              |              |            |         |

### 0. RoHS compliance

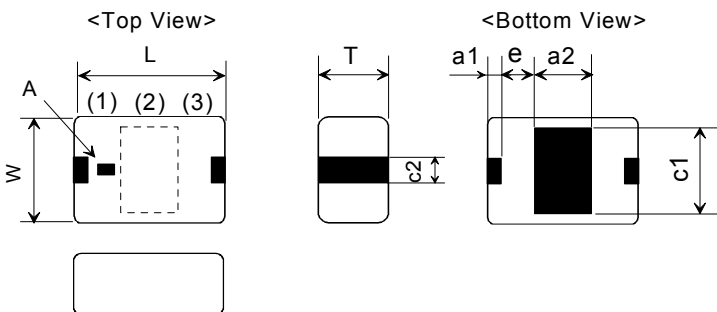
This component can meet with RoHS compliance.

# HIGH PASS FILTER (Preliminary)

## 1. Characteristics (at -40 ~ + 85 °C)

|                                |   |
|--------------------------------|---|
| Tentative Part Number          | LFH321G55RE1R712  |
| Nominal Center Frequency (fo)  | 1550.00 MHz   |
| Nominal Input/Output Impedance | 75 ohm  |
| Pass Band Range (BW)           | 950.00 ~ 2150.00 MHz                                    |
| Insertion Loss in BW           | 1.95 dB typical at 25 °C<br>TBD dB max. at -40 ~ +85 °C |
| V.S.W.R. in BW                 | 1.55 typical  |
| Attenuation (Absolute value)   | 54.5 dB typical at 475.00 ~ 675.00 MHz                  |
| RF Power Capacity              | 500 mW max.   |

## 2. Construction, Dimensions & Marking



| Mark | Meaning                |
|------|------------------------|
| A    | Directional Input Mark |

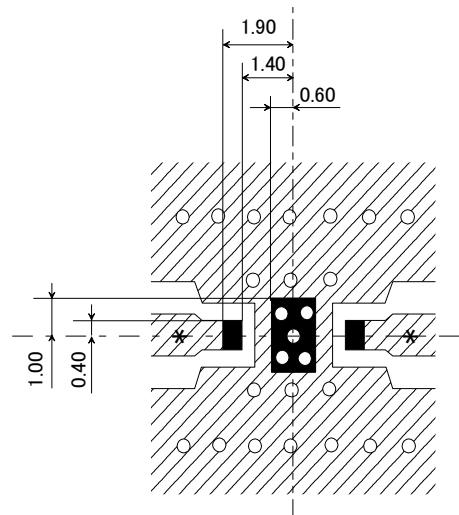
(in mm)

| Mark | Dimension   | Mark | Dimension   |
|------|-------------|------|-------------|
| L    | 3.2 ± 0.2   | a2   | 1.20 ± 0.15 |
| W    | 2.5 ± 0.2   | c1   | 2.00 ± 0.15 |
| T    | 1.7 max.    | c2   | 0.60 ± 0.20 |
| a1   | 0.30 ± 0.15 | e    | 0.60 ± 0.15 |

### TERMINAL CONFIGURATION

| Terminal No. | Terminal Name | Terminal No. | Terminal Name |
|--------------|---------------|--------------|---------------|
| (1)          | IN            | (3)          | OUT           |
| (2)          | GND           | -            | -             |

## 3. Land Pattern



(in mm)

- Land
- Solder resist
- No pattern Solder resist
- Through Hole Φ0.30

\* Line width to be designed to match 75 ohm characteristic impedance, Depending on PCB material and thickness.

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