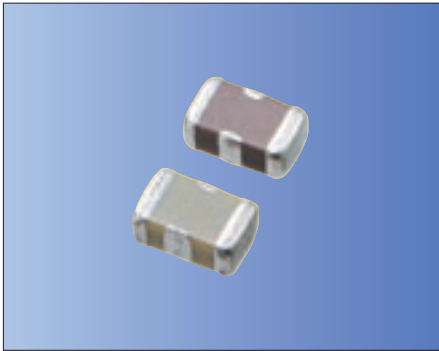


Three Terminal Capacitors KNH21 Series



RoHS Compliant

Features

- 0805 Size. Rated current up to 6A MAX.
- Effective for filtering noise on power (Vcc) lines.

Applications

- PCs, Laser Printers, Cellular Phone, Power/ Signal Lines for LCD Display, Office Equipments
- AV Power Supply/ Signal Line, TV, VCR, etc.
- High Current Signal Lines

How to Order

KNH 21 X5R 473 M 50 A T
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Size

| | |
|----|------|
| 21 | 0805 |
|----|------|

③ High Dielectric Constant Type

| | |
|-----|---------|
| X5R | ΔC: ±15 |
|-----|---------|

④ Capacitance

| | | | |
|-----|-----------|-----|--------------|
| 473 | 47,000pF | 105 | 1,000,000pF |
| 104 | 100,000pF | 106 | 10,000,000pF |

⑤ Tolerance

| | |
|---|------|
| M | ±20% |
|---|------|

⑥ Voltage

| | | | |
|----|--------|----|-------|
| 06 | 6.3VDC | 25 | 25VDC |
| 10 | 10VDC | 50 | 50VDC |

⑦ Termination

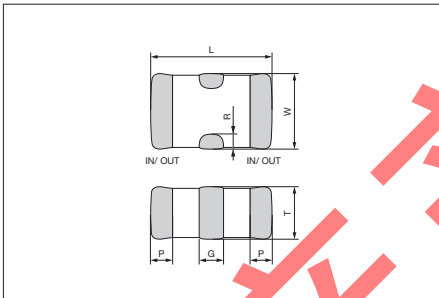
| | |
|---|---------|
| A | Plating |
|---|---------|

⑧ Packaging

| | |
|---|---|
| T | Taping (7" Reel Taping & 4mm Cavity pitch) / 3,000pcs/ Reel |
|---|---|

Dimensions

(Unit: mm)



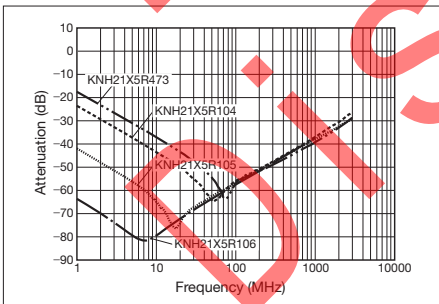
| | | |
|-------------|-----------|-----------|
| CODE | L | W |
| KNH21 | 2.0±0.2 | 1.25±0.2 |
| CODE | T | G |
| KNH21 | 0.85±0.15 | 0.40±0.30 |
| KNH21X5R106 | 1.0±0.15 | |
| CODE | P | R |
| KNH21 | 0.30±0.20 | ≥0.01 |

Specifications

| Part Number | Capacitance | Rated Current | Operating Temperature |
|------------------|--------------|---------------|-----------------------|
| KNH21X5R106M06AT | 10,000,000pF | 6.0A | -55 to +85°C |
| KNH21X5R105M10AT | 1,000,000pF | 4.0A | |
| KNH21X5R104M25AT | 100,000pF | 2.0A | |
| KNH21X5R473M50AT | 47,000pF | 2.0A | |

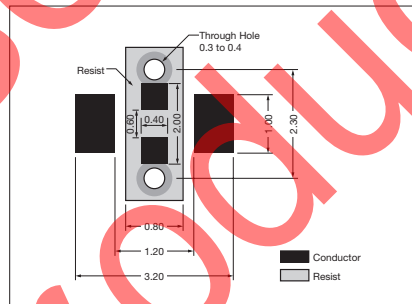
• Storage condition
Temperature: -10 to +45°C
Humidity: 45 to 75%RH

Attenuation Characteristics



Recommended Land Pattern

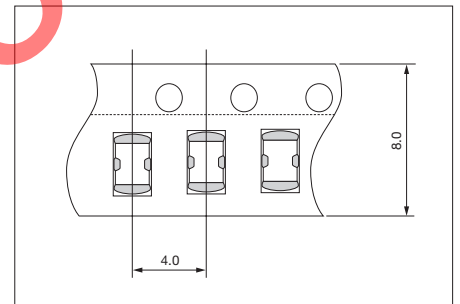
(Unit: mm)



Packaging Specification

• Taping (3,000/ reel)

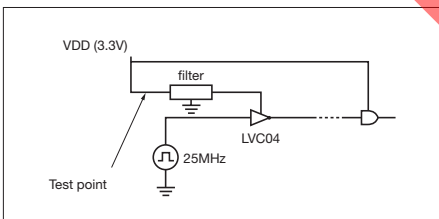
(Unit: mm)



<Electrical Characteristics>

- Wide attenuation range including surrounding circuit.

Test Circuit



Attenuation Effect of Power Supply Noise

