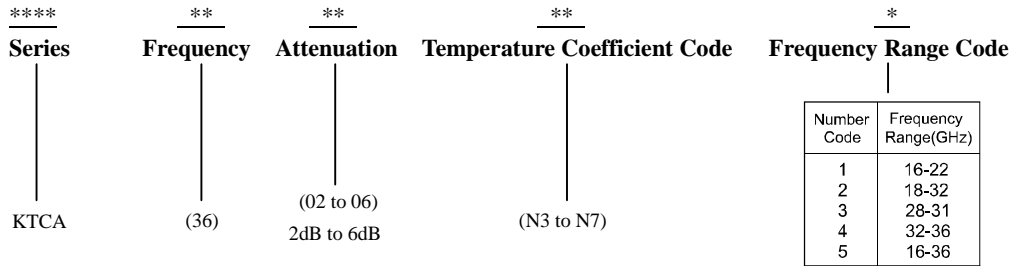
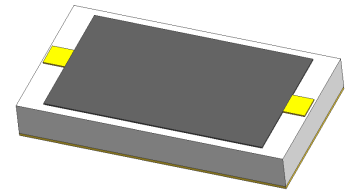


Part No. Descriptions


| Part No. | Frequency Range Code | Attenuation (dB) | Temperature Coefficient Code | Temperature Coefficient of Attenuation (dB/dB/°C) | Typ. VSWR (:1) @25°C | Max. Input Power (mW) | Attenuation Accuracy (dB) |
|-------------|----------------------|------------------|------------------------------|---|----------------------|-----------------------|---------------------------|
| KTCA3602N** | 16~36 | 2 | N3~N7 | -0.003~ -0.007 | 1.35 | 100 | ±1.0 |
| KTCA3603N** | 16~36 | 3 | N3~N7 | -0.003~ -0.007 | 1.35 | 100 | ±1.0 |
| KTCA3604N** | 16~36 | 4 | N3~N7 | -0.003~ -0.007 | 1.35 | 100 | ±1.0 |
| KTCA3605N** | 16~36 | 5 | N3~N7 | -0.003~ -0.007 | 1.35 | 100 | ±1.0 |
| KTCA3606N** | 16~36 | 6 | N3~N7 | -0.003~ -0.007 | 1.35 | 100 | ±1.0 |

General Specifications

- | | |
|--|--|
| 1. Frequency Range 2. Attenuation 3. Attenuation Accuracy 4. VSWR 5. Nominal Impedance 6. Power Rating 7. Power Derating 8. Operating Temperature 9. Temperature Coefficient over Operating Temperature Range: See Table Above. Temperature Coefficient Tolerance: ±0.001dB/dB/°C. 10. Substrate: Alumina (Al ₂ O ₃) 11. Resistive material: Thick film 12. Terminal material: Thick film, Input, Output and front Ground all made by gold, Back Ground made by Pd/Ag. 13. Protective Coating: Thick film (ethyl acetate) 14. Package Outline: See Sheet 3. 15. Workmanship: per MIL-PRF-55342. 16. RoHS Compliant. 17. Electrostatic Discharge Control: per MIL-STD-1686. | 16 to 22GHz 3dB at 25°C ±1.0dB Typical at 25°C 1.35:1 Typical 50 Ohms 100 mW CW 100% @ 100°C Derates to 0% @ 150°C -55°C to +150°C |
|--|--|



Unit Marking dB Value (XX), Direction of Shift (N) and TCA Shift (X).
 Legibility and Permanency: per MIL-STD-130.

Quality Assurance

1. Sample inspect per ANSI/ASQC Z1.4 general inspection, LEVEL II, AQL = 1.0.
 - 1.1 Visual and mechanical examination for conformance to outline package requirements.
2. Select five (5) Units from lot measure attenuation from 16 to 22GHz every 20°C over the temperature range -55°C to +125°C.
 - 2.1 Calculate, using linear regression, the slope of the curve.
 - 2.2 Calculate TCA using the following formula: TCA = Slope / Attenuation @ 25°C.
3. Test data required for customer.

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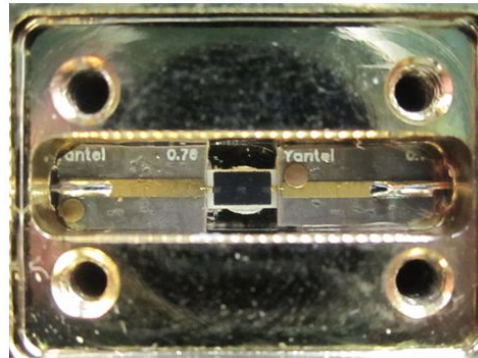
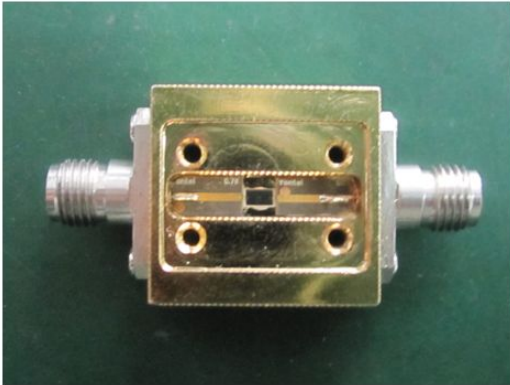
Add: 3F, Building 3, Southern District 2 of Zhongguan Honghualing Industrial Park, Xili, Nanshan, Shenzhen, China
 Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

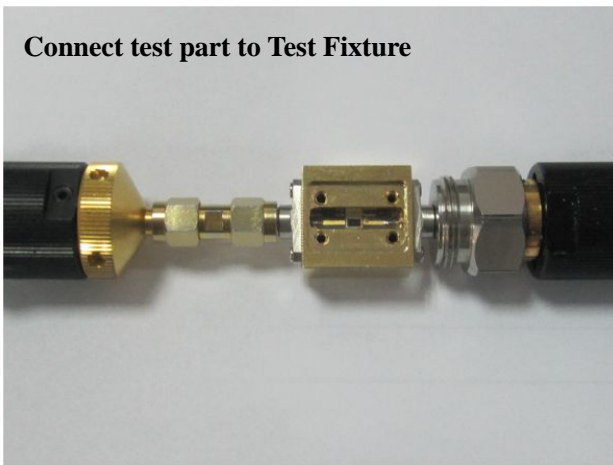
Notes on RF Testing and Circuit Layout

KTCA 16-36GHz series (for Gold Terminal type) Test Fixture

PCB Test Board



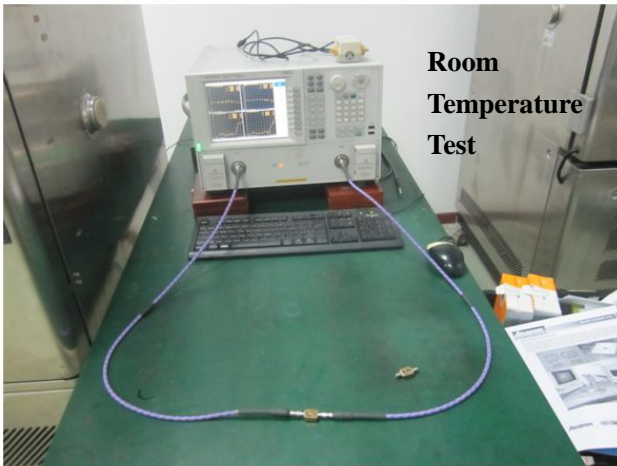
Connect test part to Test Fixture



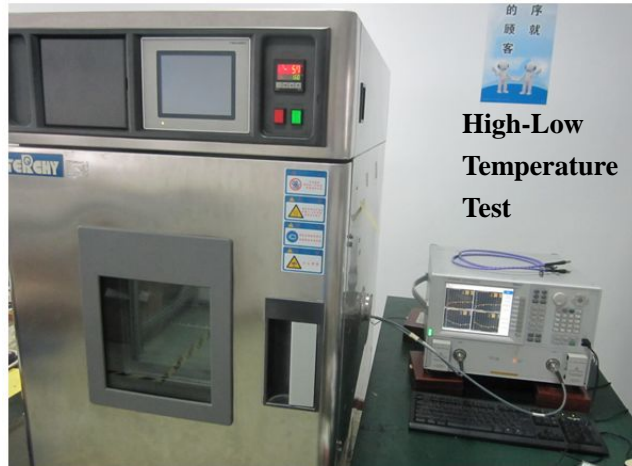
Equipment Calibration



Room Temperature Test



High-Low Temperature Test



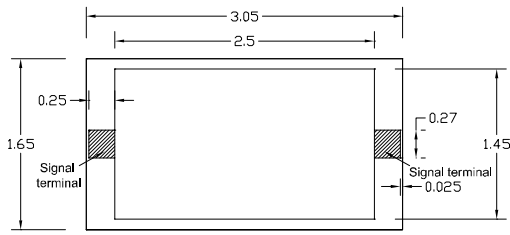
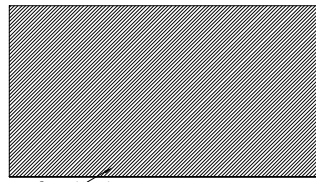
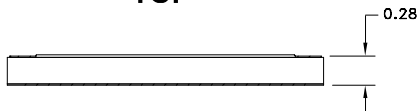
- 1、 S2P documents are available for download
- 2、 16-36GHz test fixture is rentable (only for Chinese customers) , otherwise please purchase them.

For any questions or needs, please feel free to contact inform@yantel-corp.com.

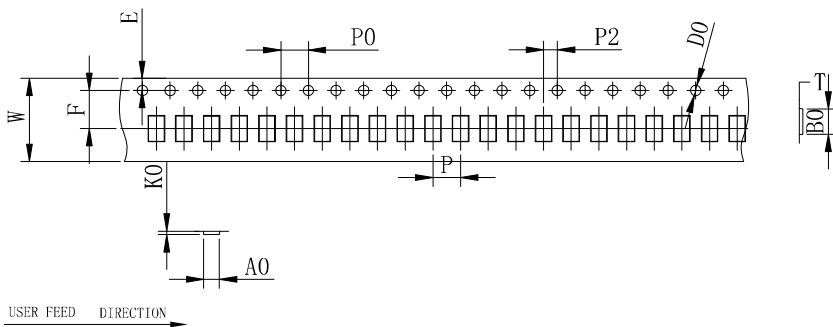
Package Outlines

 All dimensions shown in mm unless stated otherwise
 Note: Dimension tolerance in ± 0.10 otherwise mention.

Unit: mm

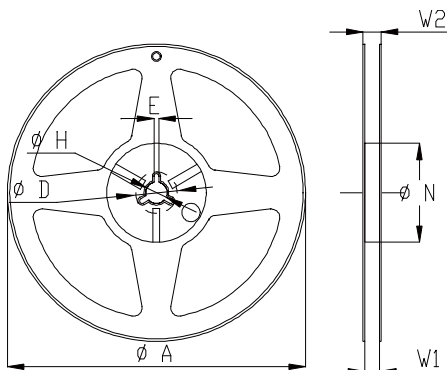

TOP

BOTTOM

SIDE
Tape & Reel Drawing

All dimensions shown in mm unless stated otherwise

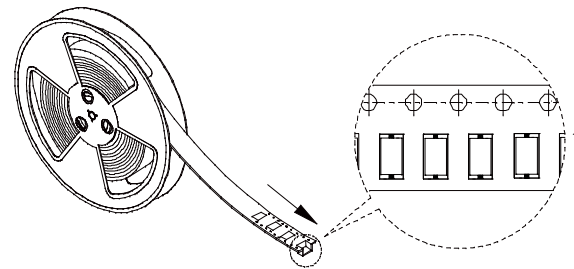

Remarks:

- 1>Total tolerance of any 10 sprocket holes is $\leq \pm 0.20$ mm.
- 2>The thickness is measured on the margin of carrier tape.
- 3>Carrier camber should be not more than 1mm per 100mm through a length of 250mm.
- 4>The tolerance which is not marked is ± 0.1 mm
- 5>AO,BO are measured from 0.3mm above the bottom of the cavity. KO refers to the inside depth.
- 6>The angle R which is not marked on the cavity is 0.2-0.3°.
- 7>Draft angle which is not marked is 3°.
- 8>25 m/reel; 6000 units (maximum) / T&R

| | | | | | | |
|--------|----------------|----------------|----------------|---------------|--------------------------|---------------|
| symbol | A0 | B0 | K0 | P0 | P | P2 |
| spec | 1.85 ± 0.1 | 3.2 ± 0.1 | 0.6 ± 0.1 | 4.0 ± 0.1 | 4.0 ± 0.1 | 2.0 ± 0.1 |
| symbol | W | T | E | F | D0 | |
| spec | 12.0 ± 0.3 | 0.3 ± 0.05 | 1.75 ± 0.1 | 5.5 ± 0.1 | $\Phi 1.5^{+0.1}_{-0.0}$ | |



| Symbol | Dimensions(mm) |
|--------|----------------|
| A | $180^{+0/-3}$ |
| N | $60^{+1/-0}$ |
| W1 | 12.0 ± 0.3 |
| W2 | 14 ± 1.0 |
| D | 25 ± 0.8 |
| H | 13 ± 0.2 |
| E | 3 ± 0.5 |


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