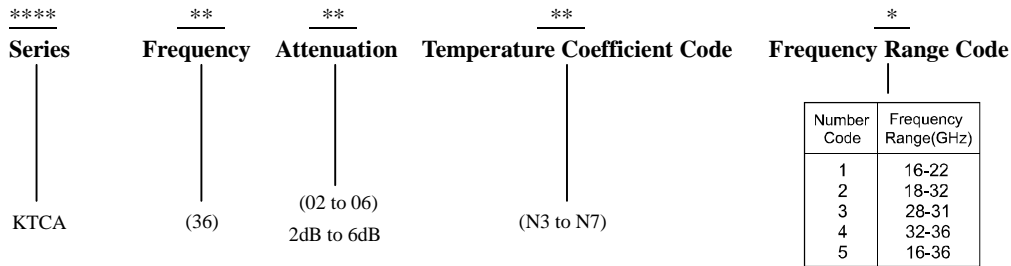


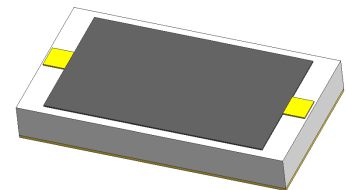
High Frequency Temperature Compensation Attenuator 32~36GHz 50Ω 100mW

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 | 32 to 36GHz |
| 2. Attenuation | 5dB |
| 3. Attenuation Accuracy | at 25°C ±1.0dB Typical |
| 4. VSWR | at 25°C 1.35:1 Typical |
| 5. Nominal Impedance | 50 Ohms |
| 6. Power Rating | 100 mW CW |
| 7. Power Derating | 100% @ 100°C
Derates to 0% @ 150°C |
| 8. Operating Temperature | -55°C to +150°C |
| 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. | |



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 32 to 36GHz 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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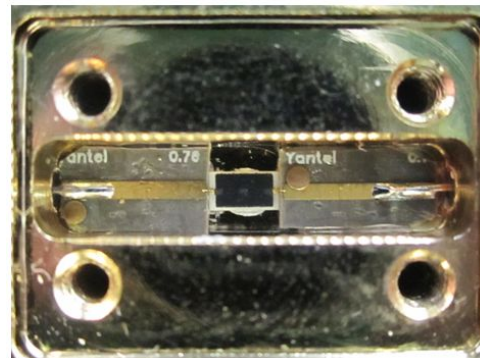
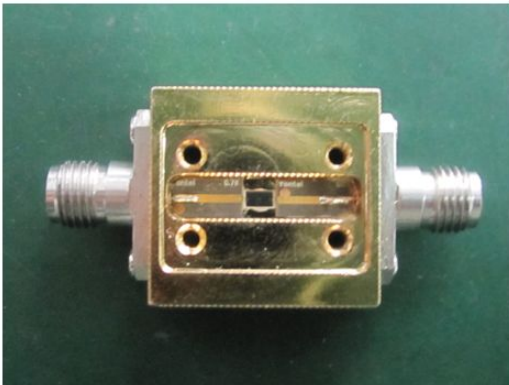
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

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

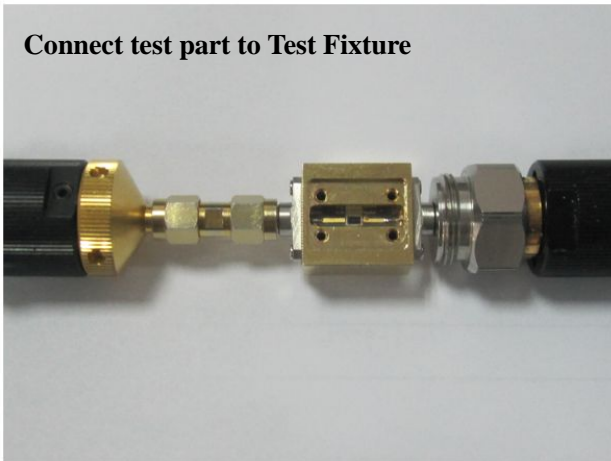
Notes on RF Testing and Circuit Layout

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

PCB Test Board



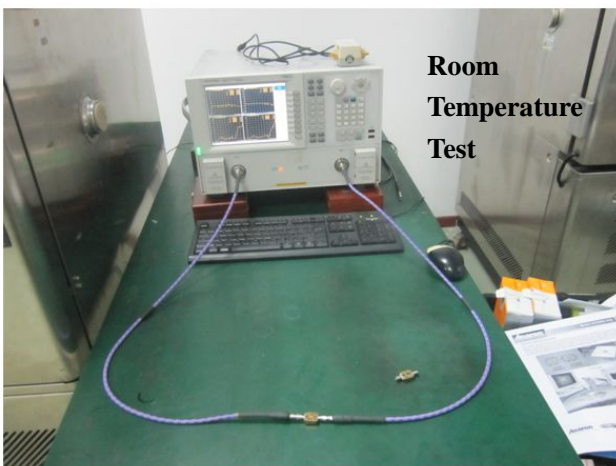
Connect test part to Test Fixture



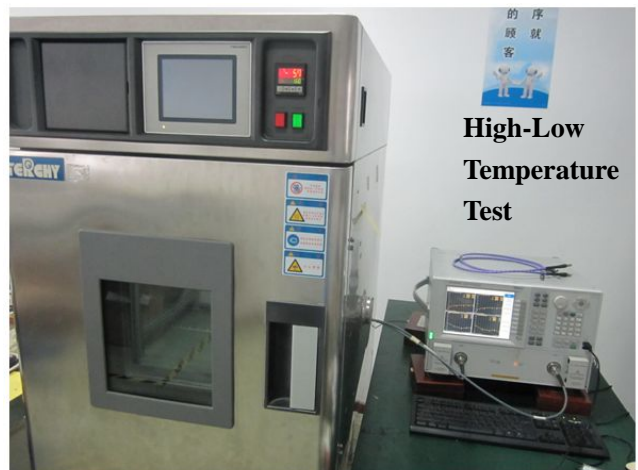
Equipment Calibration



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.

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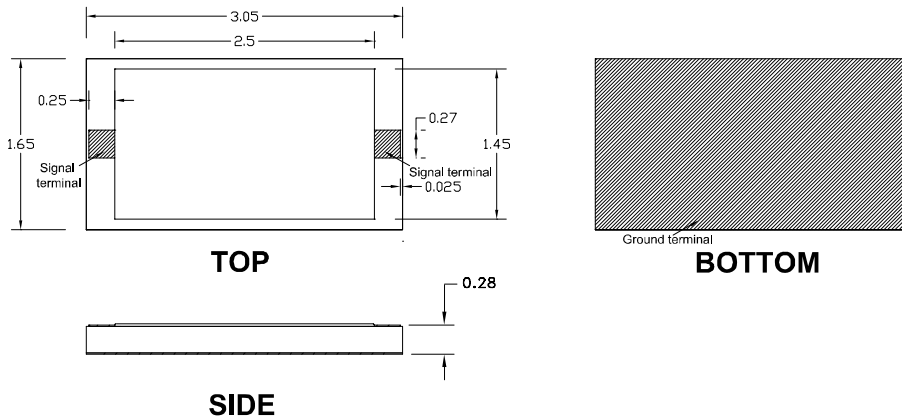
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Package Outlines

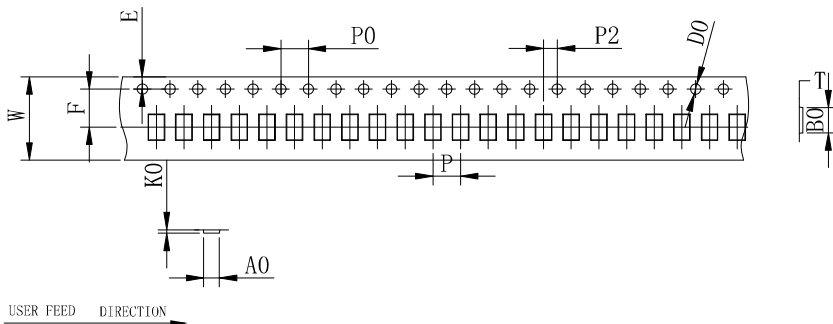
All dimensions shown in mm unless stated otherwise
 Note: Dimension tolerance in ± 0.10 otherwise mention.

Unit: mm



Tape & Reel Drawing

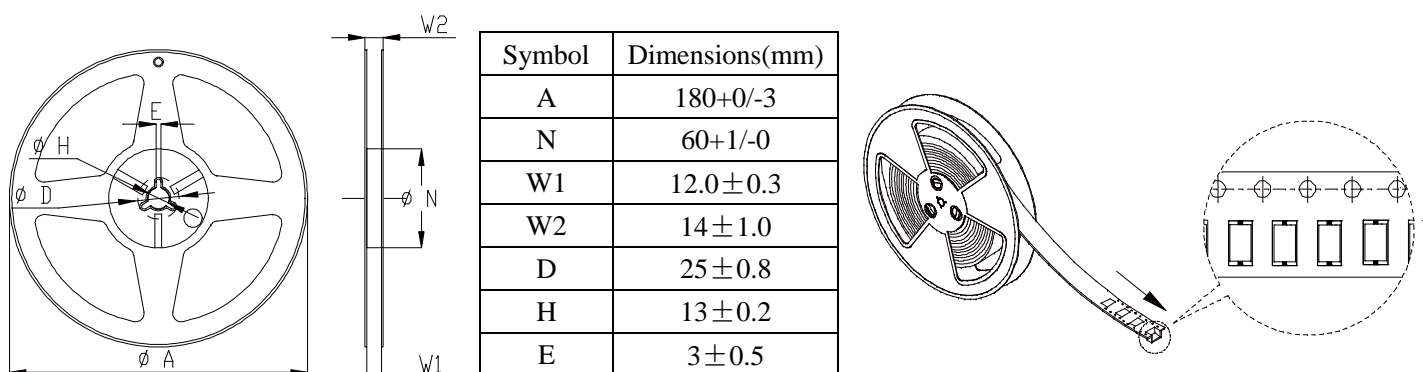
All dimensions shown in mm unless stated otherwise



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>A0, B0 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 $0.2-0.3^\circ$.
- 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	$\Phi 1.5^{+0.1}_{-0.0}$	



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