

High Frequency Temperature Compensation Attenuator 18~36GHz 50Ω 100mW

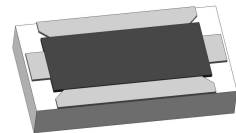
Part No. Descriptions

*** Series	** Frequency	** Attenuation	** Temperature	* Frequency	*** Metallization	* Termination						
↓	↓	↓	↓	↓	↓	↓						
KTCA	(36)	(02 to 06) 2dB to 6dB	Coefficient Code (N3 to N7)	Range Code <table><tr><td>Number Code</td><td>Frequency Range (GHz)</td></tr><tr><td>5</td><td>18-27</td></tr><tr><td>6</td><td>27-36</td></tr></table>	Number Code	Frequency Range (GHz)	5	18-27	6	27-36	Options SMT	Plating Options (no code)=lead free or (S)=Lead(Pb)
Number Code	Frequency Range (GHz)											
5	18-27											
6	27-36											

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*SMTS	18~36	2	N3~N7	-0.003~ -0.007	1.50	100	±1.0
KTCA3603N*SMTS	18~36	3	N3~N7	-0.003~ -0.007	1.50	100	±1.0
KTCA3604N*SMTS	18~36	4	N3~N7	-0.003~ -0.007	1.50	100	±1.0
KTCA3605N*SMTS	18~36	5	N3~N7	-0.003~ -0.007	1.50	100	±1.0
KTCA3606N*SMTS	18~36	6	N3~N7	-0.003~ -0.007	1.50	100	±1.0

General Specifications

- Frequency Range: 18 to 27GHz
- Attenuation: 2dB
- Attenuation Accuracy: at 25°C ±1.0dB Typical
- VSWR: at 25°C 1.50:1 Typical
- Nominal Impedance: 50 Ohms
- Power Rating: 100 mW CW
- Power Derating: 100% @ 100°C
Derates to 0% @ 150°C
- Operating Temperature: -55°C to +150°C
- Temperature Coefficient over Operating Temperature Range: See Table Above.
Temperature Coefficient Tolerance: ±0.001dB/dB/°C.
- Substrate: Alumina (Al₂O₃)
- Resistive material: Thick film
- Terminal material: Thick Film, Nickel Barrier, Sn/Pb Solder Plated
- Protective Coating: Thick film (ethyl acetate)
- Package Outline: See Sheet 3.
- Workmanship: per MIL-PRF-55342.
- RoHS Compliant.
- 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

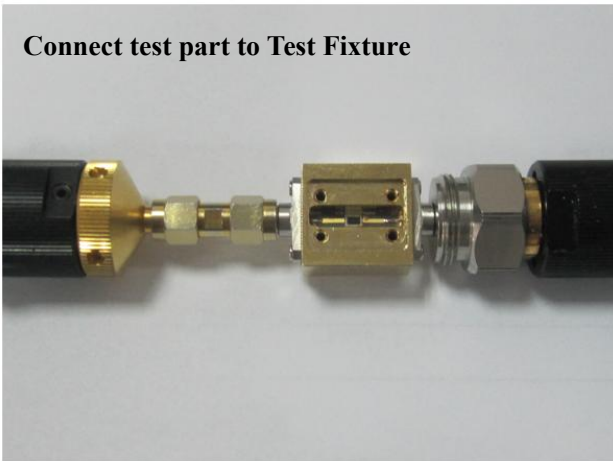
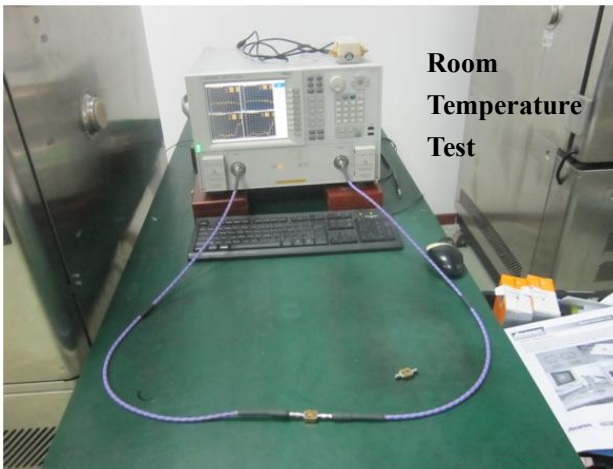
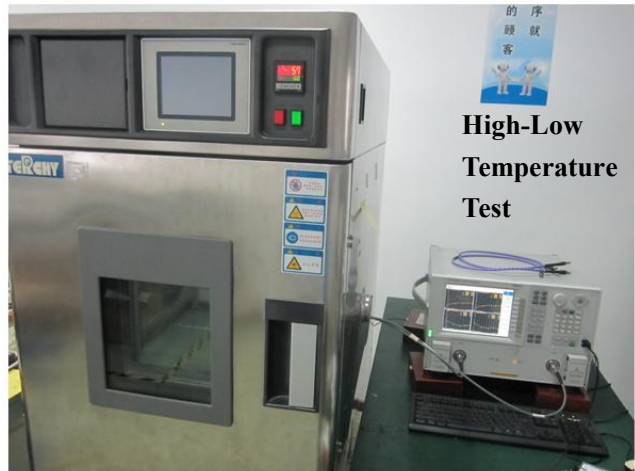
- Sample inspect per ANSI/ASQC Z1.4 general inspection, LEVEL II, AQL = 1.0.
 - Visual and mechanical examination for conformance to outline package requirements.
- Select five (5) Units from lot measure attenuation from 18 to 36GHz every 20°C over the temperature range -55°C to +125°C.
 - Calculate, using linear regression, the slope of the curve.
 - Calculate TCA using the following formula: TCA = Slope / Attenuation @ 25°C.
- Test data required for customer.

Yantel Corporation

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

Notes on RF Testing and Circuit Layout**Connect test part to Test Fixture****Equipment Calibration****Room
Temperature
Test****High-Low
Temperature
Test**

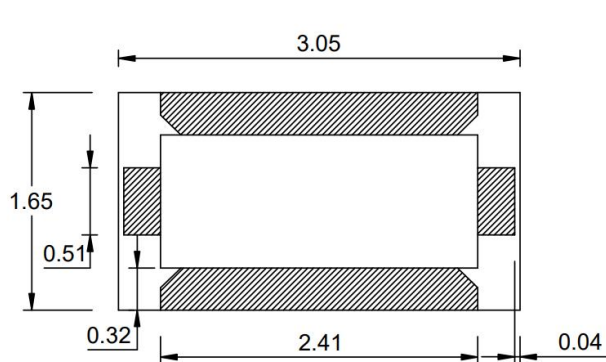
- 1、S2P documents are available for download
- 2、18-36GHz test fixture is rentable (only for Chinese customers) , otherwise please purchase them.

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

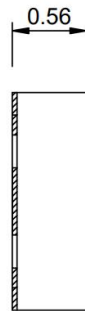
Package Outlines

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

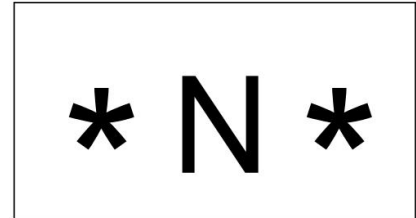
Unit: mm



TOP

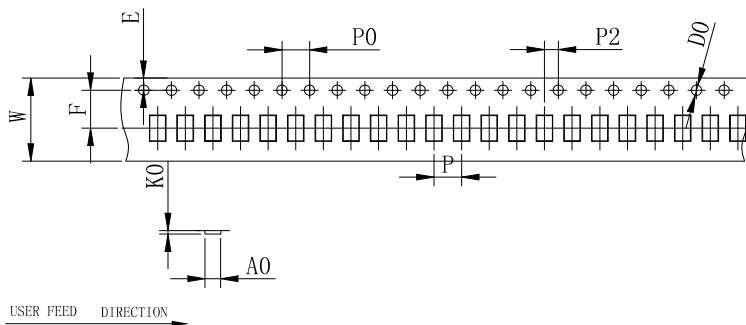


SIDE



Tape & Reel Drawing

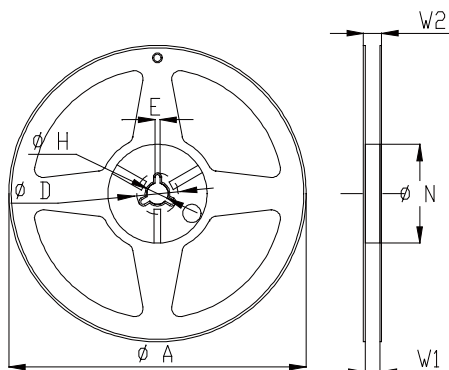
All dimensions shown in mm unless stated otherwise



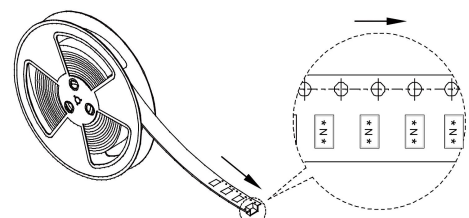
Remarks:

- 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>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.
- 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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