High Frequency Temperature Compensation Attenuator 28~31GHz 50Ω 100mW

Part No. Descriptions

Co-TCA	**	**	**	*
Series	**Frequency**	**Attenuation**	**Temperature Coefficient Code**	**Frequency Range Code**
Co-KTCA	(36)	(02 to 06) 2dB to 6dB	(N3 to N7)	

Number Code	Frequency Range(GHz)
1	16-22
2	18-32
3	28-31
4	32-36
5	16-36

Part No.	Frequency Range Code	Attenuation (dB)	Temperature Coefficient Code	Temperature Coefficient of Attenuation (dB/dB/℃)	Typ. VSWR (:1) @25℃	Max. Input Power (mW)	Attenuation Accuracy (dB)
Co-KTCA3602N**	1-5	2	N3~N7	-0.003~ -0.007	1.50	100	±1.0
Co-KTCA3603N**	1-5	3	N3~N7	-0.003~ -0.007	1.50	100	±1.0
Co-KTCA3604N**	1-5	4	N3~N7	-0.003~ -0.007	1.50	100	±1.0
Co-KTCA3605N**	1-5	5	N3~N7	-0.003~ -0.007	1.50	100	±1.0
Co-KTCA3606N**	1-5	6	N3~N7	-0.003~ -0.007	1.50	100	±1.0

General Specifications

1. Frequency Range 28 to 31GHz
2. Attenuation 5dB
3. Attenuation Accuracy at 25℃ ±1.0dB Typical
4. VSWR at 25℃ 1.50:1 Typical
5. Nominal Impedance 50 Ohms
6. Power Rating 100 mW CW
7. Power Derating 100% @ 100℃
   Derates to 0% @ 150℃
8. Operating Temperature -55℃ to +150℃
9. Temperature Coefficient over Operating Temperature Range: See Table Above.
   Temperature Coefficient Tolerance: ±0.001dB/dB/℃.
10. Substrate: Alumina (Al_2O_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 4.
15. Workmanship: per MIL-PRF-55342.
16. RoHS Compliant.
17. Electrostatic Discharge Control: per MIL-STD-1686.

Unit Marking

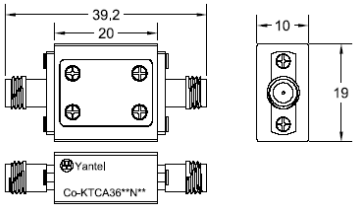
dB Value (XX), Direction of Shift (N) and TCA Shift (X).
Legibility and Permanency: per MIL-STD-130.

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 28 to 31GHz 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.

Package Outlines

All dimensions shown in mm unless stated otherwise



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