

PART NUMBER KAD178922		REV.	DATE	COMMENTS	INITIAL

Electrical Data

Nominal Impedance 50 Ω

Frequency Range DC - 18 GHz.

Insertion Loss ≤ 0.5 dB

Insulation Resistance ≥ 5000 MΩ

Dielectric Withstanding Voltage (@ sea level) 1500 VRMS

Working Voltage (@ sea level) 500 VRMS

VSWR ≤ 1.15 (DC TO 6 GHz); ≤ 1.25 (6 to 12 GHz)

≤ 1.4 (12 to 18 GHz)

Phase Adjustment/GHz 15°×f(GHz)

Phase Trimmer Instructions

- Loosen Nut 1 Before adjusting phase (use spanner size 11mm (KTL177008))
- Loosen Nut 2 before adjusting phase (use spanner size 11mm KTL177008))
- Adjust to the required phase: keep body 1 in a fixed position and adjust phase by manually turning body 2
- Tighten Nut 2 after adjusting phase (use spanner size 11mm (KTL177008))
- Tighten Nut1 After adjusting phase (use spanner size 11mm (KTL177008))

RoHS Compliant

Mechanical Data

Recommended Coupling Nut Torque	7 to 9.5 in-lbs
Coupling Proof Torque	15 in-lbs
Coupling Nut Retention Force	≥ 60.7 lbs
Durability (mating)	≥ 500
Contact Captivation-axial	≥ 6.1 lbs

Environmental Data

Temperature Range	-65 °C - 165 °C
Corrosion	MIL-STD-202, Method 101, Condition B.
Moisture Resistance	MIL-STD-202, Method 206
Thermal Shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition D

Standards

MIL-STD-348B

Typical VSWR

Part Number	1Ghz	2~5Ghz	6~10Ghz	11~14Ghz	15Ghz	16Ghz	17~18Ghz
KAD178922	1.04	1.08	1.09	1.20	1.23	1.27	1.41

Typical PHASE (DEGREES)

Part Number	1Ghz	2Ghz	3Ghz	4Ghz	5Ghz	6Ghz	7Ghz	8Ghz	9Ghz
KAD178922	15°	30°	45°	60°	75°	90°	105°	120°	135°
	10Ghz	11Ghz	12Ghz	13Ghz	14Ghz	15Ghz	16Ghz	17Ghz	18Ghz
	150°	165°	180°	195°	210°	225°	240°	255°	270°

Drawing not to scale. Dimensions for reference only

Units: inches (mm)



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1-800-790-5887

PART NUMBER KAD178922		DESCRIPTION Adapter, In-Series, SMA straight Male Plug to Female Jack Phase Trimmer																							
CAGE CODE 664U0	SIGNATURE X	<table style="width: 100%;"> <tr> <th>Component</th> <th>Material</th> <th>Plating</th> </tr> <tr> <td>Body & Coupling Nut</td> <td>Stainless Steel</td> <td>Passivated</td> </tr> <tr> <td>Adjustment Nut</td> <td>Stainless Steel</td> <td>Passivated</td> </tr> <tr> <td>Center Contact</td> <td>BeCu</td> <td>Gold over Nickel 50 over Copper 50</td> </tr> <tr> <td>Retainer Ring</td> <td>BeCu</td> <td>White Bronze</td> </tr> <tr> <td>Gasket</td> <td>Stainless Steel</td> <td>Passivated</td> </tr> <tr> <td>Insulator</td> <td>PTFE</td> <td></td> </tr> </table>			Component	Material	Plating	Body & Coupling Nut	Stainless Steel	Passivated	Adjustment Nut	Stainless Steel	Passivated	Center Contact	BeCu	Gold over Nickel 50 over Copper 50	Retainer Ring	BeCu	White Bronze	Gasket	Stainless Steel	Passivated	Insulator	PTFE	
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