

# MICROWAVE COMPONENTS

DC to 4.0GHz	Coaxial Variable Phase-Shifters	CL 355
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## ◆ GENERAL FEATURES

Coaxial Variable Phase Shifters are designed to adjust the signal phase by changing the length of the coaxial cable tube at a fixed 50-ohm impedance. Signal phase

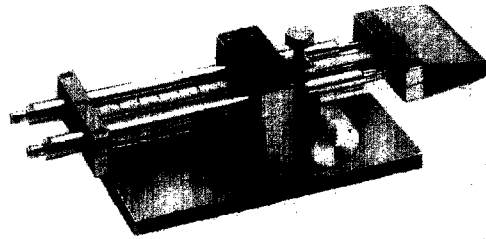
is locked so that no phase shift occurs. Movable distance is 140 mm.

## ◆ OPERATIONAL ENVIRONMENT

Temperature: -10°C ~ +65°C  
Humidity: 0 ~ 95%

## ◆ MATERIAL FINISH

Part name	Material	Finish
Body (Connector)	Stainless steel	Gold plated
Body	Brass	Nickel plated
Contact (Female)	Beryllium copper	Gold plated
Insulator	Teflon	

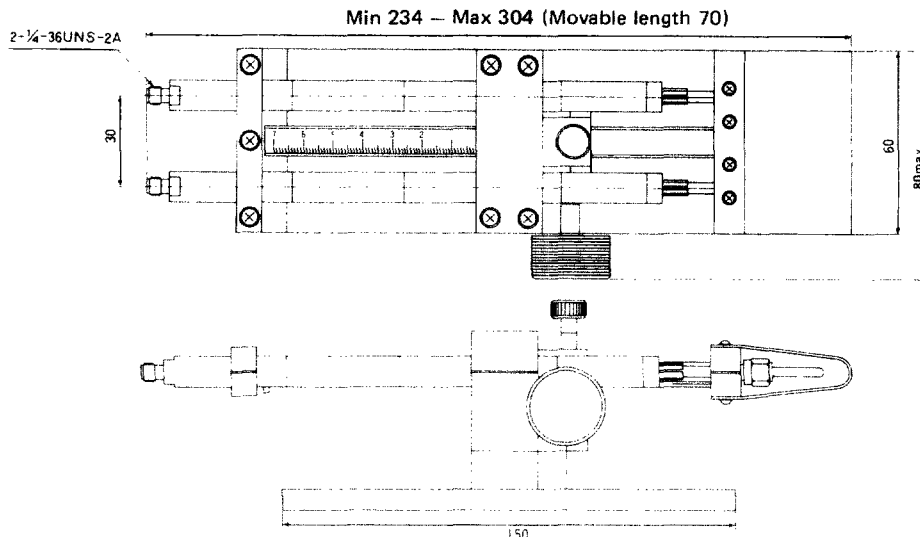


HLS-JJ-2

## ◆ SPECIFICATIONS

Model No.	Frequency range (GHz)	VSWR (Max)	Length of travel (mm)	Power (W)	Weight (kg)
HLS-JJ-2	DC~4	1.3	For transmission path in air 140	50	2

## ◆ DIMENSIONS



## ◆ Relation between shift length, delay time, and phase shift

Shift Length L (mm), Delay Time T (ns), Frequency F (GHz), Phase Shift  $\theta$  (deg)

$$T = \frac{L}{300}$$

$$\theta = 1.2 \times L \times F$$

