

# SemaLink

## Ku Band Test Couplers

### FEATURES

- Available for different frequency bands
- Waveguide components with optional coaxial connector assemblies
- High power handling for high power applications
- Multipaction and corona free design
- Manufactured using space qualified materials
- Structural mass optimization for optimum solutions customization upon customer request
- Fully space qualified



**SemaLink Ku-ITC**  
Ku Band Input Test Coupler 13.75-14.50 GHz



**SemaLink Ku-OTC**  
Ku Band Output Test Coupler 10.7-12.8 GHz

## OVERVIEW

Waveguide components, which aim to transmit RF signals with low loss or which allows transmission of high power RF signals, are qualified for geostationary satellites. Several different waveguide products with different specifications are available with the possibility of customization according to specific customer or mission requirements. These products can be used to combine, filter or separate RF signals.



SPECIFICATIONS	SemaLink Ku-ITC	SemaLink Ku-OTC
Operating Frequency	13.75 - 14.50 GHz	10.70 - 12.80 GHz
Coupling	26 ± 1 dB	33 ± 1 dB
VSWR		1.119:1
Insertion Loss		< 0.1 dB
Directivity		> 22 dB
Interface		WR 75
Mass		< 120 g
Size	85 x 53 x 68 mm	97 x 52 x 68 mm
Corona Threshold (by analysis)		> 1000 W
Flight Heritage		TÜRKSAT 6A



### SPACE QUALIFIED

Fully space qualified equipment for geostationary satellites.



### CUSTOMIZABLE

Designed and optimized according to customer needs.



### HIGH RELIABILITY

Designed for more than 15 years of lifetime in geostationary orbit with lowest cost possible.



### LOW MASS

Mechanical design is optimized for mass to meet mission specific requirements.