



## **C / ku band multi-polarization antenna feed omt with frequency range selector**



Antenna feed with orthomode transducer and frequency range selector for C / Ku band

### **C / Ku band multi-polarization antenna feed OMT with frequency range selector**

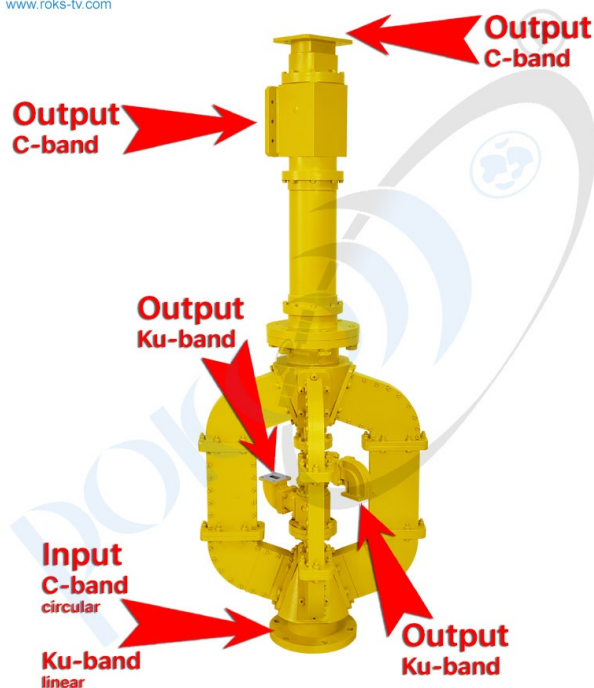
This antenna feed provides simultaneous reception of signals of two opposite circular or two orthogonal linear polarizations in the range of 3.4 - 4.2 GHz and two opposite circular or two orthogonal linear polarizations in the range of 10.7 - 12.75 GHz

The outputs of the microwave converter units can be made connected to the WR-229 flange (accordingly to the range of 3.4 - 4.2 GHz (2 outputs)) and WR-75 (the range of 10.7 - 12.75 GHz (2 outputs)).

C / Ku band multi-polarization antenna feed OMT with frequency range selector is compatible with the antenna system, and the antenna feed must be coordinated in terms of the angles and levels of subreflector, the constructive solution of the device should ensure that antenna feed is installed in the focus of the antenna system!

### **Main parameters**

- VSWR on device outputs:
  - in the range of 3.4 - 4.2 GHz: no more than 1.4;
  - in the range of 10.7 - 12.75 GHz: no more than 1.4.
- Total losses, dB:
  - in the frequency range of 3.4 - 4.2 GHz: no more than 0.4;
  - in the frequency range of 10.7 - 12.75 GHz: no more than 0.4.
- Polarization resolution, dB:
  - in the 3.4-4.2 GHz frequency range:
    - circular: not less than 25.7;
    - linear: not less than 30.7.
- Polarization resolution, dB:
  - in the frequency range of 10.7 - 12.75 GHz:
    - circular: not less than 25.0;
    - linear: not less than 30.0.



**The device set must function normally and maintain its characteristics during operation under the following environmental conditions:**

- ambient air temperature range from -40 to +50°C;
- relative air humidity up to 95% at 25°C;
- atmospheric pressure 630 - 800 mm Hg;
- wind speed up to 55 m/s.

Parameter	Value
<u>Simultaneous reception of signals:</u>	
-two orthogonal circular or two orthogonal linear polarizations in the frequency range, GHz	3.4...4.2
-two orthogonal circular or two orthogonal linear polarizations in the frequency range, GHz	10.7...12.75
<u>VSWR on the device outputs, not more than:</u>	
- in the range of 3.4...4.2 GHz;	1.4
- in the range of 11/12 GHz.	1.4
<u>Total losses, not more than, dB:</u>	
- in the range of 3.4...4.2 GHz;	0.4
- in the range of 11/12 GHz.	0.4
<u>Polarization resolution, not worse, dB:</u>	
- in the range of 3.4...4.2 GHz (circular/linear);	29.0/30.0
- in the range of 10.7...12.75 GHz (circular/linear)	29.0/30.0

*Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.*

**Note!** *All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.*