



Chengdu Sanlianweixun Technology Co., Ltd.

Ku-K-Ka multi band orthogonal mode subsystem (type A)

【Product introduction】 :

Including splitters, combiners, OMTs, circular polarizers, filters and connecting waveguides.

Features: wide band, low insertion loss, good rejection, small size.

Function: Separate or combine Ku/K/Ka satellite communication T/R signal. Ku band: Linear polarization T/R mode (different frequency, horizontal/vertical polarization) K/Ka band:

Circular polarization T/R mode (different frequency; LHCP/RHCP polarization).

【Technical indicators】 :

1. Working frequency: Ku band: 11.45~12.75GHz(RX);13.75~14.5GHz(TX)

K/Ka band: 19.0~21.2GHz(RX);29.0~31.0GHz(TX)

2. VSWR: 1.30:1 MAX

3. Insertion loss: 0.8dB MAX

4. Isolation: (K/Ka)/Ku: 60dB MIN

Ku: TX/RX 90dB MIN

Ku: RX/TX 35dB MIN

K/Ka: TX/RX 90dB MIN

K/Ka: RX/TX 90dB MIN

5. circular polarizability(K/Ka): 1.0dB MAX

6. Interface: Common port: circular waveguideΦ19.05

Ku band: RX: WR75; TX: WR75

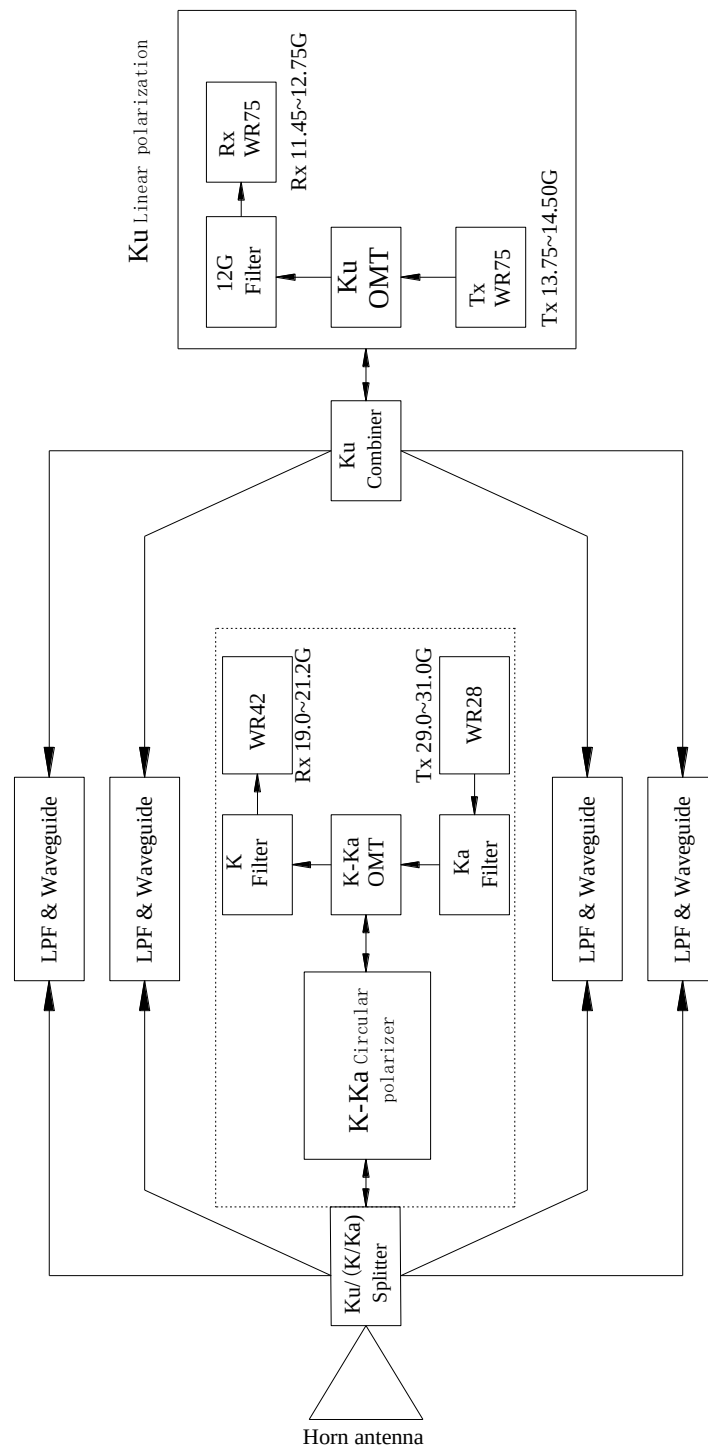
K/Ka band: RX: WR42; TX: WR28

7. Principal schematic:

Address: No. 18, Chengzhi Road. Chenghua District. Chengdu City. China. 610053

Tel: +86-021-86780908

Email: jamesruiwang@163.com



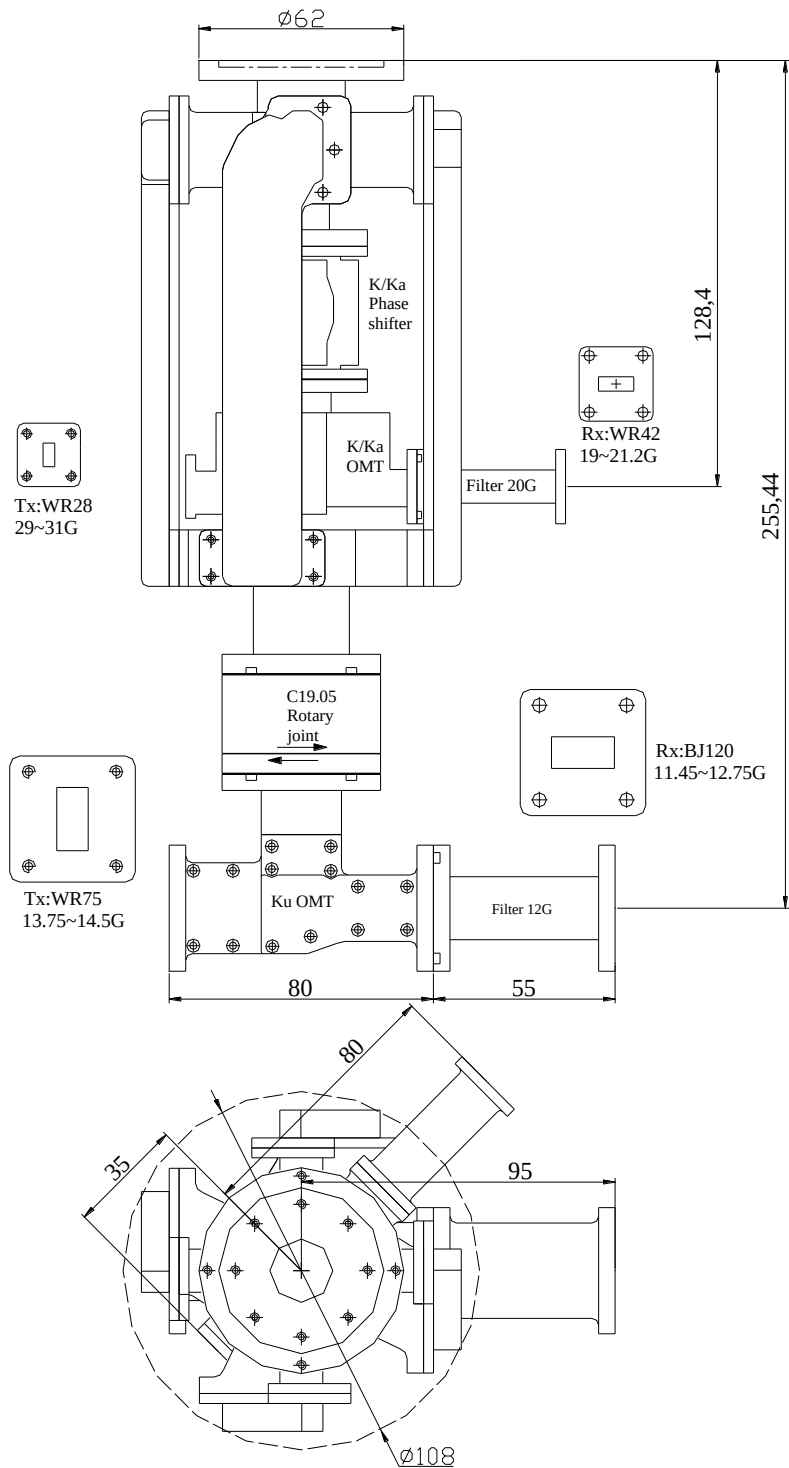
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5. Structure:

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