



Chengdu Sanlianweixun Technology Co., Ltd.

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

【Product introduction】：

Including splitter, combiner, OMT, circular polarizer, rotary joints, 180° phase shifter, septum polarizer, 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: 19.6~21.2GHz (RX); 29.4~31.0GHz (TX)

2. VSWR: 1.35:1 MAX

3. Insertion loss: 0.6dB MAX

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

Ku/(K/Ka): 100dB MIN

Ku: TX/RX 85dB MIN

Ku: RX/TX 35dB MIN

K/Ka: TX/RX 90dB MIN

K/Ka: RX/TX 90dB MIN

5. Interface: Common port: circular waveguide $\Phi 19.05$

Ku band: RX: WR75; TX: WR75

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

6. Principal schematic:

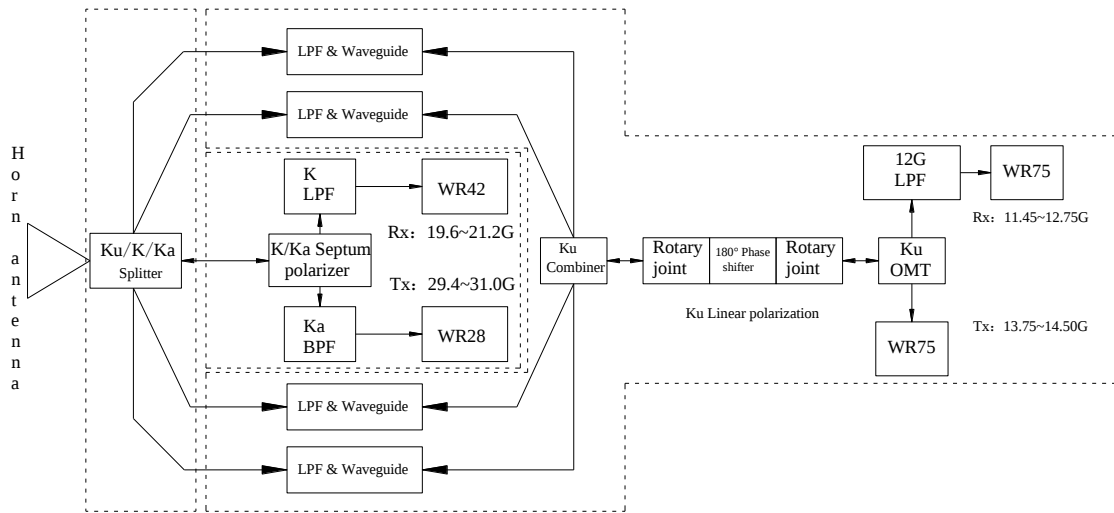
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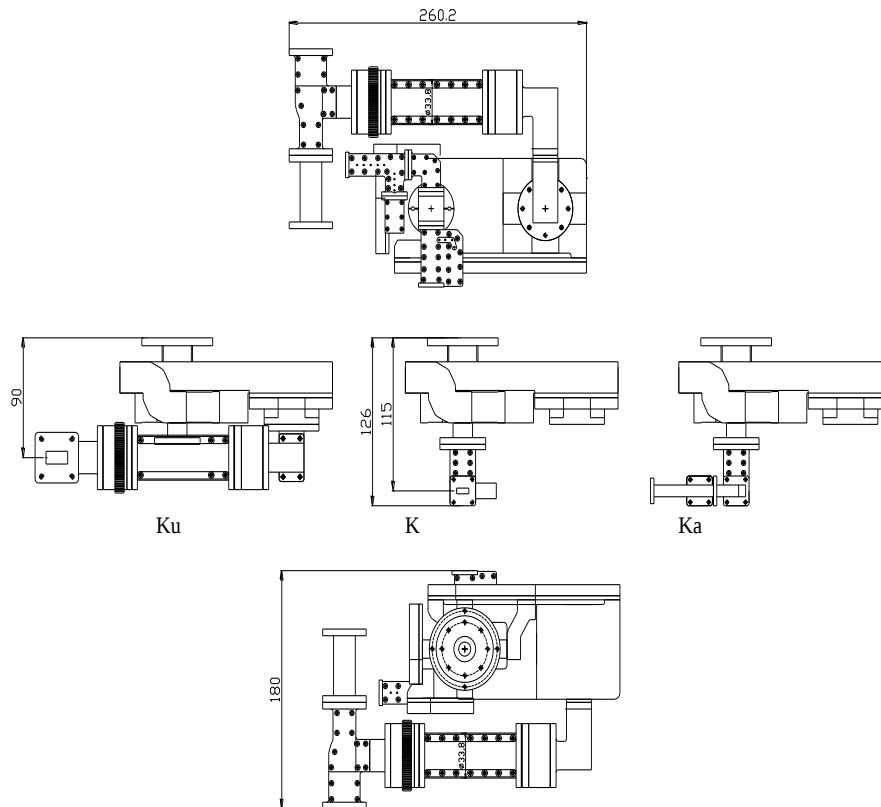


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7. Structure:



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