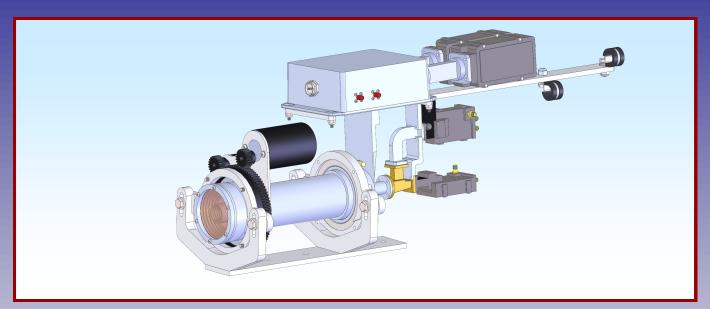


M2 Antenna Systems, Inc. Model No: FGFD-2-KUL-KAC-1-W Dual-Band Dish Feed KU-Band Linear / KA Band Circular



SPECIFICATIONS:

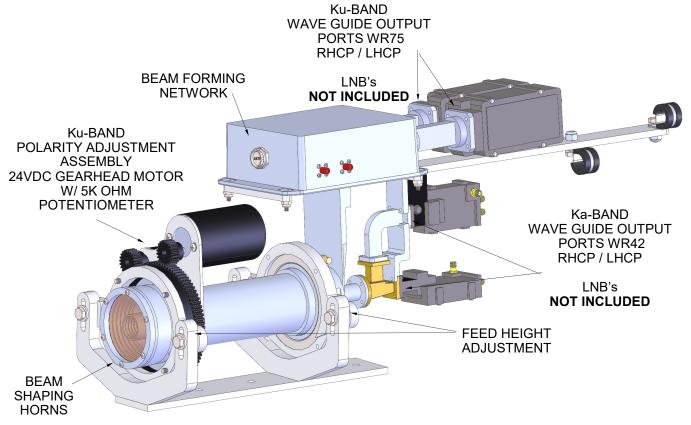
Model Number	FGFD-2-KUL-KAC-1-W
Ku-Band Frequency Coverage	10.9 - 13.1 GHz (Commercial Band)
Ka-Band Frequency Coverage	17.9 - 22.5 GHz (Commercial Band)
Optimum Dish Feed F/D Ratio	0.7-0.9 F/D Ratio
System Efficiency	50 TO 65%
Isolation Between Ports (Ku-Band)	>15 dB
Isolation Between Ports (Ka-Band)	>20 dB
Polarity	Ku Linear / Ka Circular
Connector	Wave Guide WR75 / WR42
Dimensions	26" x 6.75 "x 11.0"
Weight	
Power Max (Ku-Band)	50 Watts cont.
Power Max (Ka-Band)	500 Watts cont.

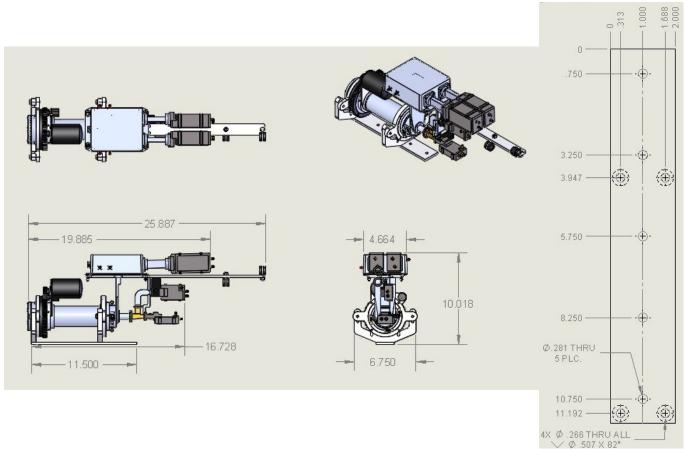
FEATURES:

M2 continues to improve and add to it's line of beam-formed antenna feeds. Our latest addition is the new FD-2-KUL-KAC-1-W. This robust feed utilizes on axis Ka-Band OMT and polarizer W/ Ku-Band quad-probe dual linear both on axis. This feed is designed for offset feed Reflectors from 0.7 to 0.9 F/D ratios. Built for Dual-Band operation the FD-2-KUL-KAC-1-W feed operates from 10.9 to 13.1 GHz at Ku-Band W/ both Horizontal and Vertical polarities and 17.9 to 22.5 GHz at Ka-Band in both RHCP and LHCP. The precision machined aluminum body is fully sealed to combat brutal weather conditions. The FD-2-KUL-KAC-1-W also comes equipped with motorized polarity adjustment using a 24VDC Gearhead motor. The heavy duty Kapton cover protects the feed from moisture and debris intrusion, allowing for extended service life. **LNB'S NOT INCLUDED**. For complex microwave solutions, look no further than M2 Antenna Systems. Call us for your RF and microwave needs

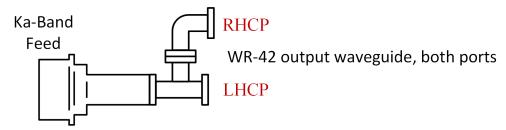
Using proprietary Frequency-Selective Surface (FFS) designs, **M2 Antenna Systems**, **Inc**, can fit multiple feeds on beam, increasing the capabilities of new or legacy reflectors. If your project is pressed for time, The M2 Engineering staff is ready to assist in sourcing, selection and design of the RF front end electronics, LNA's, LNB's, BUC's, Amplifiers, RF Cabling and referencing. Give us a call with your requirements today...we can help.

Ku/Ka DUAL BAND FEED DETAIL

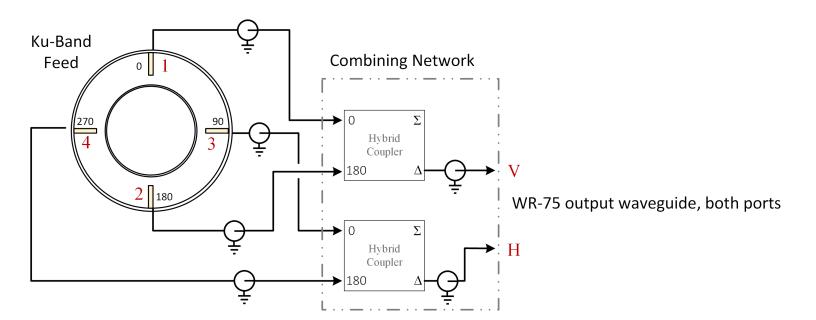




Ku/Ka DUAL BAND FEED RF SCHEMATIC

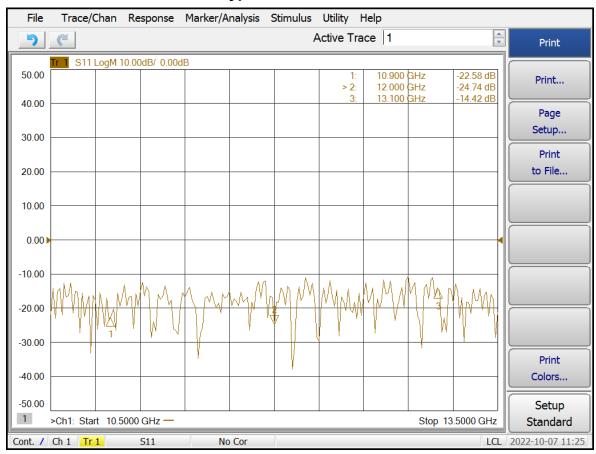


note: Polarities indicated for prime-focus / offset-prime implementation

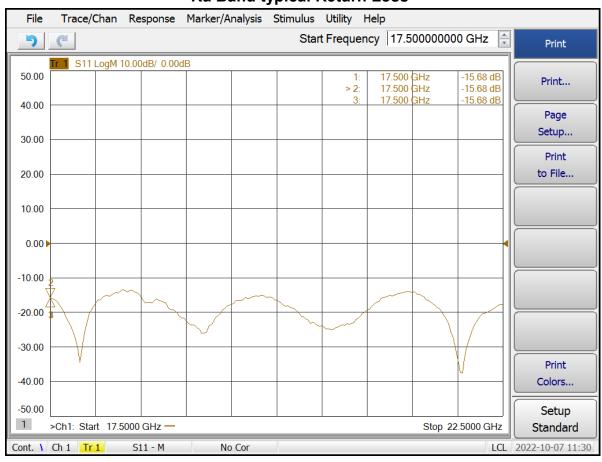


Ku/Ka TYPICAL RETURN LOSS

Ku Band typical Return Loss



Ka Band typical Return Loss



Ku/Ka DUAL BAND FEED

DESCRIPTION	QTY
FGFD-2-KUL-KAC-1-W	
ADEL CLAMPS #6	
HARDWARE	
BOLT, 1/4-20 X 3/4 HH SS	
LOCKING NUT, 1/4-20 SS	
NYLON TIE. 7"	

Pre-amps and filtering

M2 can assist in identifying Tx/Rx path isolation challenges, polarity switching, and many of the other RF challenges presented by more complex implementation. If your project has complex RF challenges.... M2 is available to assist.

12 Month Limited Warranty Information

This warranty gives you specific legal rights. You may also have other rights which will vary from state to state or province to province.

M2 warrants the **FGFD-2-KUL-KAC-1-W** antenna feed against defects in material and workmanship for a **period of 12 months** from date of purchase. During the warranty period, **M2** will, at its option, either repair or replace products or components which prove to be defective. The warranty shall not apply to defects or damage resulting from:

- Improper or inadequate maintenance by user
- Improperly prepared installation site
- Unauthorized modifications or misuse
- Accident, abuse, or misapplication
- Electrostatic Discharge
- Normal wear

M2 specifically does not warrant this product for any direct, indirect, consequential, or incidental damages arising from the use or inability to use the product. Some states or provinces do not allow the exclusion or limitation of liability for consequential or incidental damages so the above limitation may not apply.

In the event repair or replacement are necessary, purchaser shall contact M2 for return authorization. In many cases this contact can simplify and expedite the repair / replacement process and help reduce costs and downtime.

The purchaser shall be responsible for packing the product properly for return and for charges to ship the product to **M2**. Always include with the shipment, a statement detailing the problem / failure and any other pertinent observations. Insuring the product for shipment is recommended. Use the original packing materials whenever possible. **M2** is responsible for charges (in the United States) to return the repaired / replacement product only where warranty service is involved.

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