

**SPECIFICATIONS**

**FREQUENCY BAND**
- TRACKING (DIFF) CHANNEL: 17.70 - 21.20 GHz
- DOWNLINK CHANNEL: 17.70 - 21.20 GHz
- UPLINK CHANNEL: 27.50 - 31.00 GHz

**INSERTION LOSS**
- THROUGH LINE 17.70 - 31.00 GHz: 0.05 dB MAX

**VSWR**
- THROUGH LINE 17.70 - 31.00 GHz: 1.06:1 MAX
- TRACKING 17.70 - 21.20 GHz: 1.60:1 MAX

**COUPLING**
- TE11 MODE TO TRACK CHANNEL: 35 dB OR BETTER (Rx)
- TE11 MODE TO TRACK CHANNEL: 90 dB MIN (Tx)
- TE21 MODE TO TRACK CHANNEL: 5 dB .12 dB (Rx)

**DIFFERENCE CHANNEL NULL DEPTH**
- 38 dB WITH RESPECT TO SUM CHANNEL PEAK

**POWER HANDLING**
- 1.0 KW CW MIN

**WEIGHT**
- TBD

**PRESSURE**
- SEALED TO 5.0 PSIG

**FINISH**
- INTERIOR & FLANGE FACES: CHROMATE CONVERSION COATED
- EXTERIOR: WHITE PAINT

**INTERFACE DRAWING**

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**INTERFERENCE CLEARANCE**

**DIMENSIONING AND TOLERANCING**

- TOLERANCES: .001 INCH
- ALL MACHINED SURFACES: ANGLES ± 0° 30'

**APPROVALS**

- DRAWN: TOVALIN
- DATE: 03 JUN 15
- TITLE: TE21 TRACKING COUPLER, Ka-BAND, Tx/Rx

**SPACETIME ENGINEERING**

- HARBOR CITY, CA 90710

**SCALE:** 1:1

**Sheet:** 1 of 1