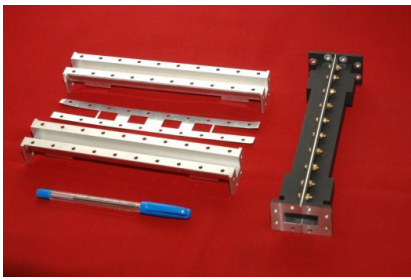
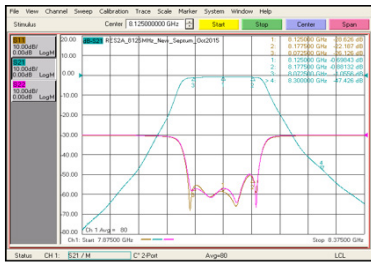
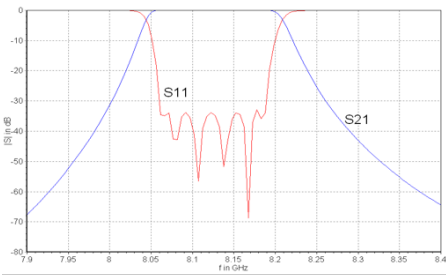


## E-Plane Filter

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Low loss, high Q band pass filter with high power handling capability designed for data transmission applications in LEO satellites.

		
<b>E-plane filter at X-band</b>	<b>E-plane filter at X-band</b>	<b>Measured response of E-plane Filter at X band</b>

### Salient Features

- ✦ Waveguide filter with high Q.
- ✦ Low insertion loss.
- ✦ Moderate bandwidths (1 to 7%).
- ✦ Easy to change centre frequency and bandwidth.
- ✦ Handles RF powers beyond 2kW.
- ✦ Simple in construction.
- ✦ Mass production suitability.

## Major Specifications

- ✦ Centre frequency : 8.2 GHz.
- ✦ Bandwidth : 160 MHz.
- ✦ Insertion loss : 0.5 dB max.
- ✦ Return loss : 17 dB min.
- ✦ Group delay : 6 n sec max.
- ✦ Rejection : 90 dBc for lower frequency bands.
- ✦ Power handling : 200 W CW at vacuum conditions.
- ✦ RF interface : WR112 waveguide flange.
- ✦ Size : 50 x 35 x 200 mm<sup>3</sup>.
- ✦ Mass : 200 grams.

## Technology Transfer

URSC/ISRO offers to transfer this technology of E-Plane Filter to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),  
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,  
Vimanapura Post, Bangalore – 560 017.

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🌐 <https://www.ursc.gov.in/industry/index.jsp>