



# **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.



## **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.

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## **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. : 50 x 35 x 200 mm<sup>3</sup>. Size 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.

Fechnology 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.
Email-id: tt-icd@ursc.gov.in
https://www.ursc.gov.in/industry/index.jsp

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