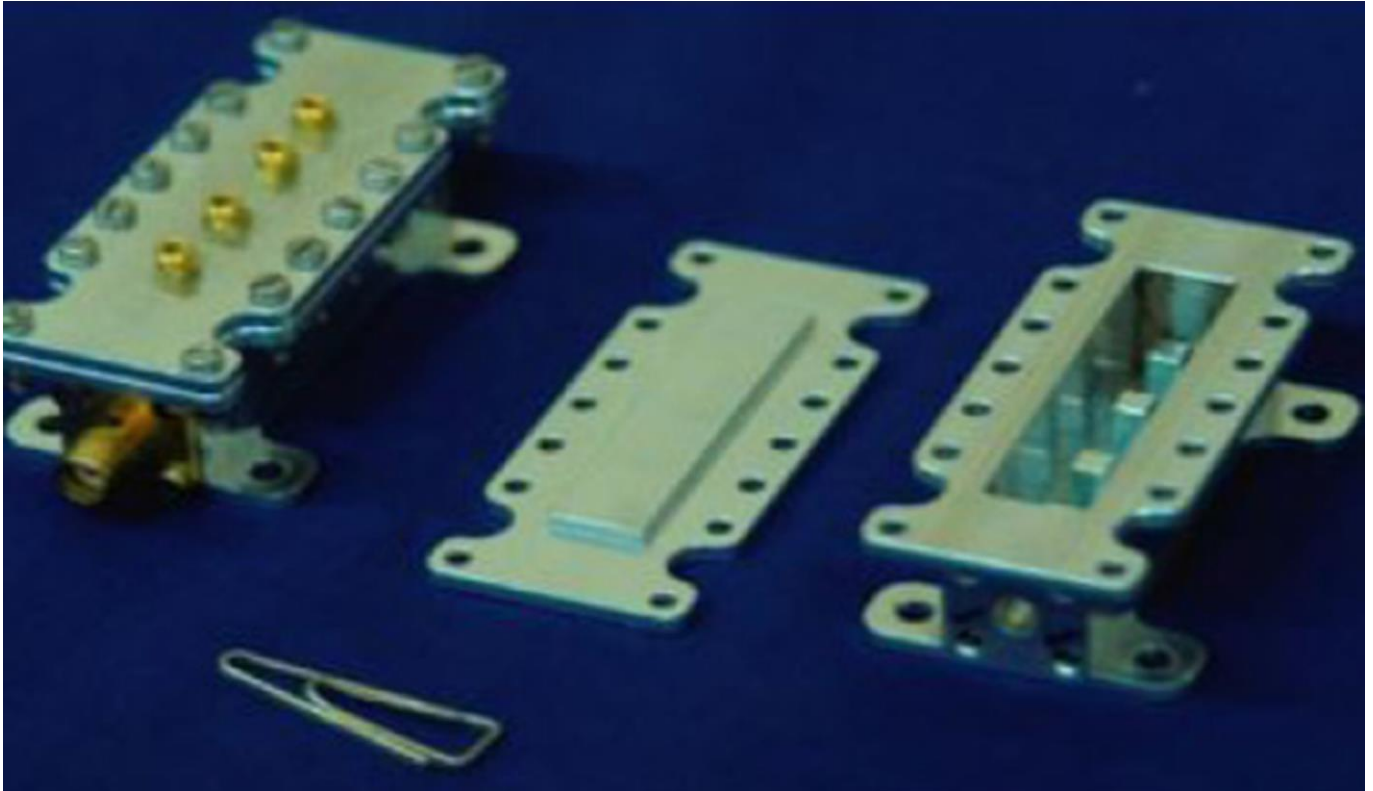


Evanescent Mode Filters

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Low loss microwave band pass filter designed for X-Band Data transmitter to allow required band of frequencies and rejecting all other frequencies.



E-plane filter at X-band



Measured Response of X Band Filter

Specifications:

- TEM mode operation in cavity.
- Narrow bandwidth.
- Symmetric skirt response.
- High rejection bandwidth.
- Coaxial interface.
- Compact and light weight.
- Mechanically robust.
- Mass production suitability.

Major Specifications:

Centre frequency	: 8.2 GHz
Bandwidth	: 360 MHz
Insertion loss	: 0.35 dB
max Return loss	: 17 dB min
Group delay	: 4 n sec max
Rejection	: 90 dBc up to 2f0
Power handling	: 20 W CW at vacuum conditions
RF interface	: SMA jack
Size	: 15 x 15 x 40 mm ³
Mass	: 50 grams

Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: