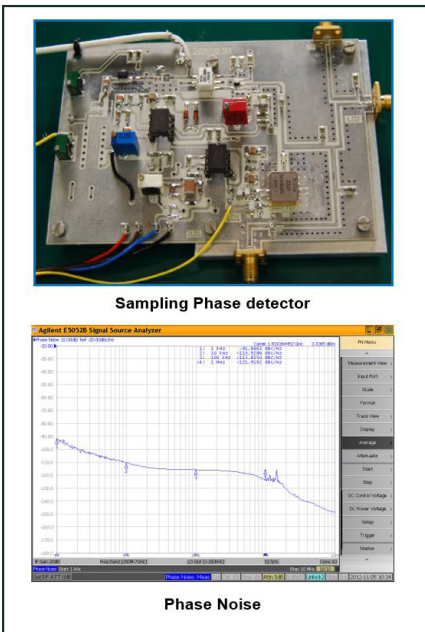


Sampling Phase Detector

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed the S-Band signal source using sampling phase detector (SPD) for coherent transponder.



Salient Features

- ✦ Using single SPD, multiplication factor of the order 100 can be achieved.
- ✦ Realized completely in analogue domain and not susceptible to Single Event Upset (SEU).
- ✦ Improved Phase Noise.

Major Specifications

Parameter	Specifications
Frequency:	1.9333GHz
O/P Power:	5dBm
Phase noise:	-97dBc @1KHz
Harmonics:	-40dBc
Spurious:	-55dBc
Temperature	-30°C to +60°C
DC power:	1.1
Weight:	100gm

Technology Transfer

URSC/ISRO offers to transfer this technology of Sampling Phase Detector 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,
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