

# Measurement of BS/CS converter output by signal analyzer

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### ♦ The method of measuring the output of BS/CS converter using handheld real time signal analyzer will be introduced.

#### \*Application\*



#### \*Solution \*

- The satellite signal of 12GHz band is converted to IF frequency from 1.5 to 2GHz by BS · CS antenna / converter.
- Bias Tee will convert the impedance from  $50\,\Omega$  at spectrum analyzer side to  $75\,\Omega$  at antenna side, and also supply the power to BS/CS converter.
- Bias Tee is supply the power from the external. The polarization plane of the antenna can be changed by switching the voltage of 11/15V.



observed using the time domain function. The figure below shows the time response of power.

Similarly, the temporal variation of power and phase will be

TART 0. 00*u*s STOP 60. 00*u*s

#### \*System configuration \*

Spectrum analyzer [MSA538]	$\times 1$
Bias Tee [PD264]	$\times 1$
DC power supply 11/15V	$\times 1$
Cables	$\times 1$

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