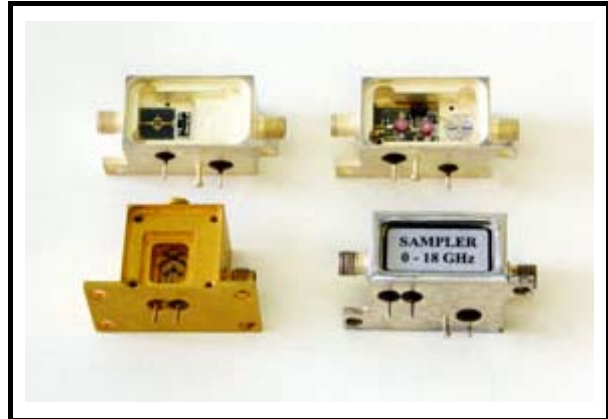


Microwave Frequency Sampling Converters



DESCRIPTION

Designed for conversion of a microwave input signal frequency into an intermediate frequency. Used as input devices in phasemeters, network analyzers, frequency counters, in frequency synchronization and stabilization systems of microwave generators, local oscillators and synthesizers.

OPERATING CONDITIONS

Operating temperature range: 5...40 °C

Relative humidity: 98%

SPECIFICATIONS

Characteristic	Single-Channel			Two-Channel	
	7020	7021	7022	7023	7024
Frequency range:					
RF, GHz	0–18	0–26	0–40	0–18	0–40
LO, GHz	0.1–0.4	0.5–8	1–6	0.06–0.15	1–6
IF, MHz	0–50	0–800	0–1000	0–30	0–1000
Conversion loss, dB	30–40	25–30*	30–40*	30–40	30–40*
Conversion loss Flatness, dB (at $f_{LO} = \text{Const}$)	±3	±3*	±1.5*	–	±1.5*
R-port VSWR	3	3	3	3	3
LO power, mW	0.1–10	100–200	100–200	0.1–5	150–250
LO harmonic power at R-port,	–40	–30	–30	–35	–30
RF, LO connectors	SMA(f)**	SMA(f)**	2.4 mm	SMA(f)**	2.4 mm
Dimensions, mm	44x24x21	28x28x19	38x36x20	74x60x20	85x47x35
Weight, g	60	35	60	300	450

* RF Power - 0.1 mW, $R_{IF}=1 \text{ k}\Omega$, $f_{IF}=10 \text{ MHz}$

** The Converters may be supplied with IX type connectors (in accordance with ГОСТ 13317-89) with metric

threads instead of SMA type connectors with inch threads.