



Balanced mixers on
Schottky barrier diodes
in the frequency range 40–78 GHz



APPLICATION

Balanced mixers of **M332002** series provide microwave signals conversion from the frequency range 40–78 GHz to 0–2 GHz range (M322002-01, M332002-03) and 0-12.5 GHz (M332002-02).

The mixers are designed to be used in receiving devices of different purposes, in devices for research work and communication systems, and also in measurement instrumentation.

Those mixers are made on hybrid-integrated base and their design and production technique provide low conversion loss, high level of isolation and high dynamic range.

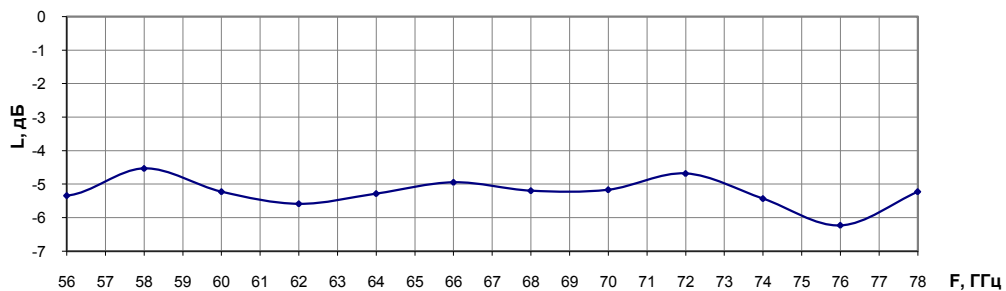


SPECIFICATIONS

	M332002-01	M332002-02	M332002-03
Range of input frequencies (RF), GHz	40–43	37.5–50	53–78
Conversion loss, dB, no more	7.5	10.0	7.5
Ranges of LO frequencies, GHz	40–43	37,5–50	53–78
Power of LO signal, mW	10	10	10
IF range, GHz	0–2	0–12.5	0–2
Isolation of LO from RF, dB, not less	20	20	20
Operating frequency range, °C	0–50	0–50	0–50
Relative humidity at 25°C, %, no more	80	80	80
Weight, g, no more	60	60	60
Overall dimensions, mm	20x20x28	20x20x28	20x20x22

CHARACTERISTICS

(shows the typical characteristics of the M332002-03 mixer)



Type dependence of conversion loss of mixer M332002-03 on frequency at constant IF value and variation of F_{RF} , F_{LO} ($F_{IF}=2$ GHz, $P_{LO}=10$ dBm)