User Guide
EVB-ATEK750N3-01

Document Code	: 023-131101
Revision No	: 03
Revision Date	: 16/04/2022

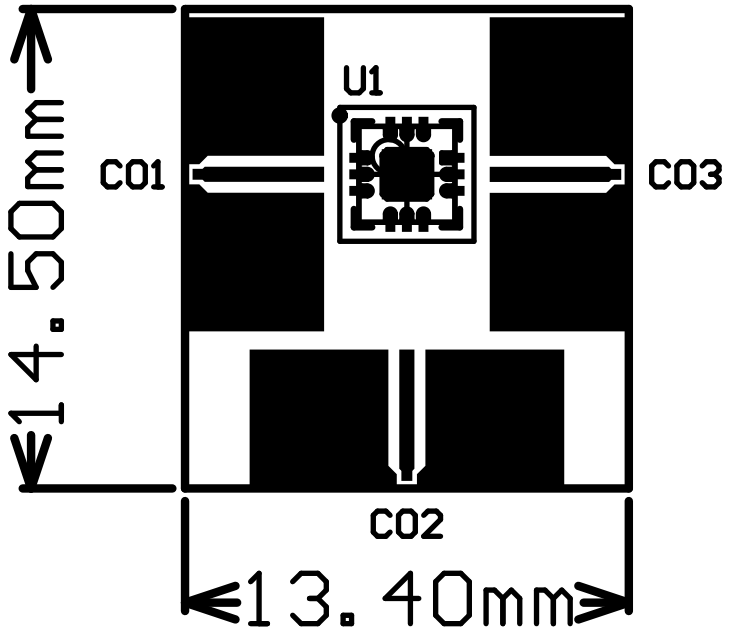
ATEK MIDAS Property

Revisions

Revision No	Revision Date	Revision Reason	Section / Page No
1.0	28.07.2021	Initial Version	
1.1	10.01.2022	Format and Content Fixed	
1.2	16.04.2022	Format and Content Fixed	

INDEX

1 GENERAL INFORMATION



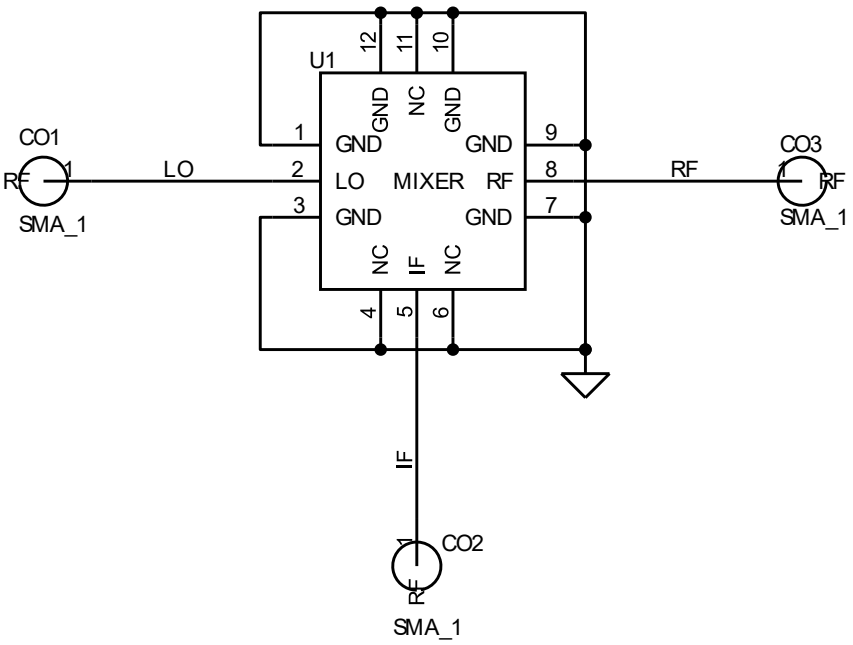
PIN Name	Definition	Comment
CO1	LO	K Connector
CO2	IF	K Connector
CO3	RF	K Connector

Notes:

1. N/A.

2 DESIGN INFORMATION

2.1 SCHEMATIC



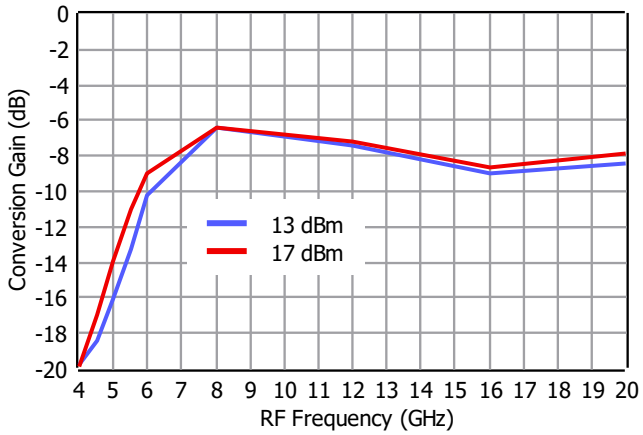
2.2 BOM

Designator	Footprint	Qty	Comment	PN
CO1, CO2, CO3	K Connector	3	K Connector	ATEK9292
U1	ATEKQ3312	1	Mixer	ATEK750N3

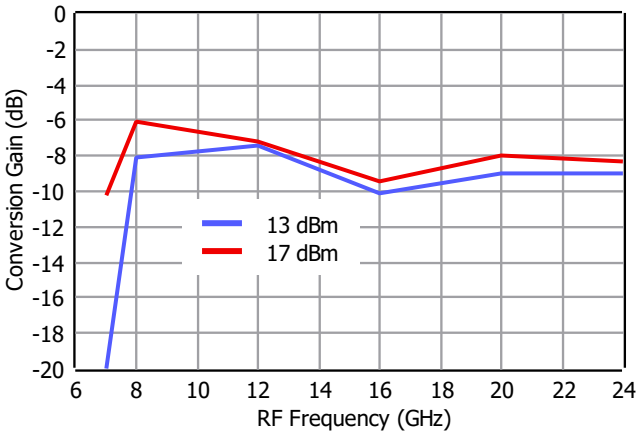
3 TYPICAL PERFORMANCE PLOTS

Conditions unless otherwise specified: Typical, T = 25 C, CW. Downconverter. For details, please refer to the datasheet.

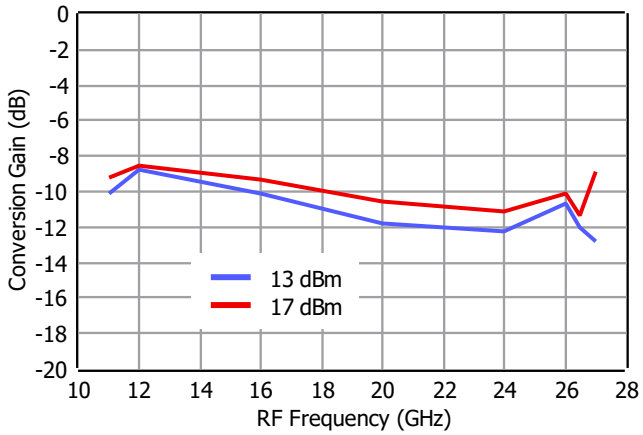
Conversion Gain vs. LO Power, IF=1 GHz, Lower Sideband



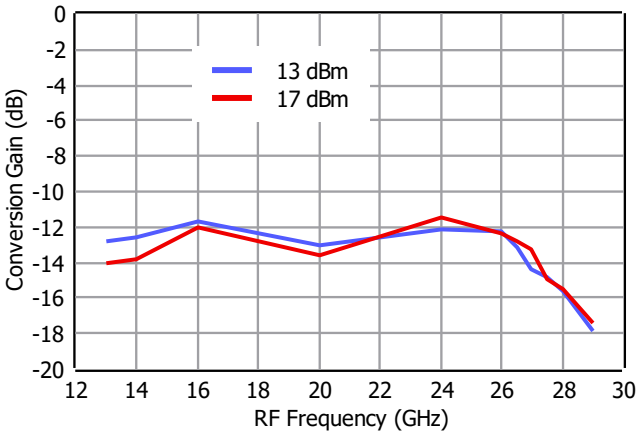
Conversion Gain vs. LO Power, IF=3 GHz, Upper Sideband



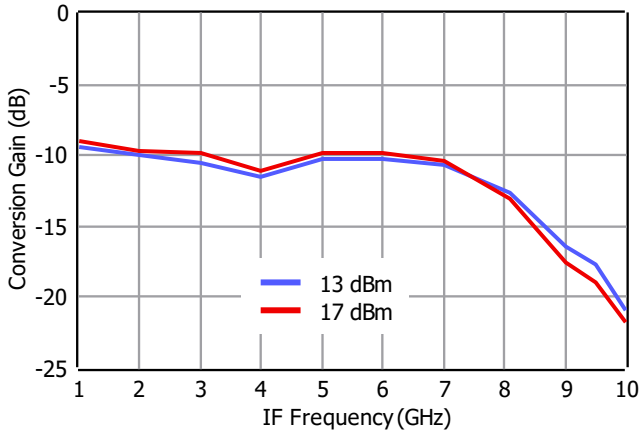
Conversion Gain vs. LO Power, IF=6 GHz, Upper Sideband



Conversion Gain vs. LO Power, IF=8 GHz, Upper Sideband



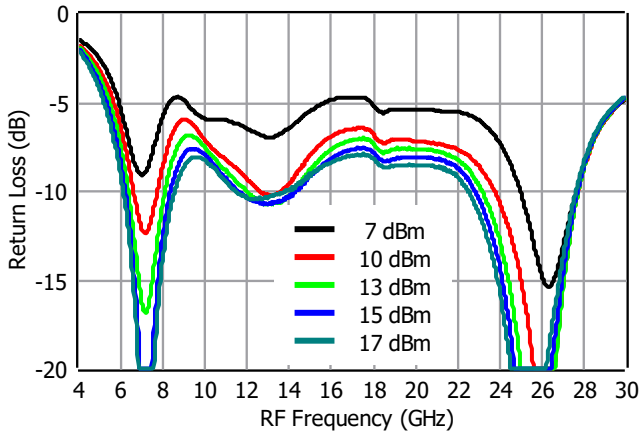
Conversion Gain vs. IF Frequency, LO Power Upper Sideband, RF=16 GHz



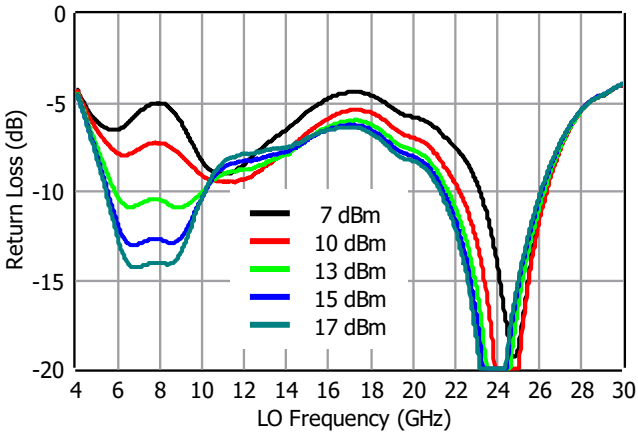
4 TYPICAL PERFORMANCE PLOTS

Conditions unless otherwise specified: Typical, T = 25 C, CW. Downconverter. For details, please refer to the datasheet.

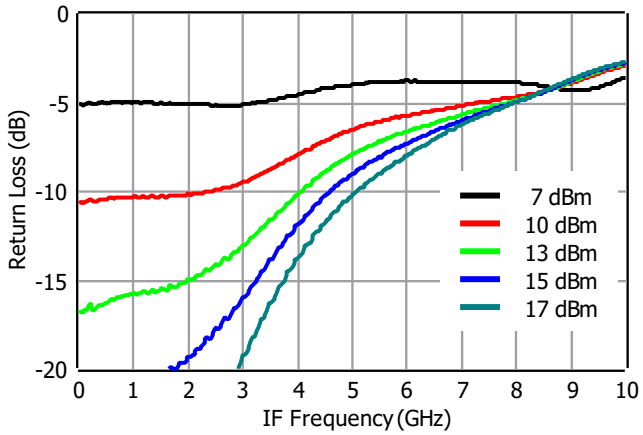
RF Return Loss vs. LO Power, LO=18 GHz, Upper Sideband



LO Return Loss vs. RF Power, RF=18 GHz, Upper Sideband



IF Return Loss vs. RF Power, RF=18 GHz, Upper Sideband



IF Return Loss vs. LO Power, LO=18 GHz, Upper Sideband