

General Description

The TA00-02 is a general 2TX * 2RX transceiver for Ka-band that have high linearity & gain performance. The module features a flat high gain with excellent current consumption.



Electrical Specification (DL)

Parameter	Specification	Comment
IF input Frequency	1.8432GHz	
Output Frequency	27.5 ~ 28.35GHz	
Bandwidth	850MHz	
Gain	43 dB	Max
Input Power	-20 dBm	
Output Power	+23 dBm	
Gain flatness	2.0 dB	Peak to Peak
Gain variation over Temp.	± 1 dB	
ACLR (400MHz Carrier, PAPR 9.76dB)	-14dBm @ RB=100KHz	0.05 MHz ≤ f_offset < 5.05 MHz
	-16dBm @ RB=100KHz	5.05 MHz ≤ f_offset < 10.05 MHz
	-16dBm @ RB=1MHz	10.05 MHz ≤ f_offset < f_offset max
Harmonics (2 nd)	45 dBc	Min
EVM	2%	Max
Input / Output VSWR	1.5 : 1	
DL <-> UL Isolation	80 dBc	Min

Ka-band 2T*2R Transceiver

Electrical Specification (UL)

Item	Specification	Comment
Input Frequency	27.5 ~ 28.35GHz	
Output Frequency	1.8432GHz	
Bandwidth	850MHz	
Gain	38 dB	
Input Power	-58 dBm	
Output Power	-20 dBm	
Gain flatness	2.0 dB	Peak to Peak
Gain variation over Temp.	± 1 dB	
Noise Figure	6dB max	Max Gain
Switching Time	200ns	
Input power Limit Level	-33dBm	
Input / Output VSWR	1.5 : 1	

Mechanical Specification

Parameter	Specification	Comment
Input / Output Connectors	SMA(F) / K-type(F)	
Power Consumption	30W max	Including DL / UL
Operating Temperature	-30 ~ +55 °C	
Relative Humidity	0 ~ 95%	Non-condensing