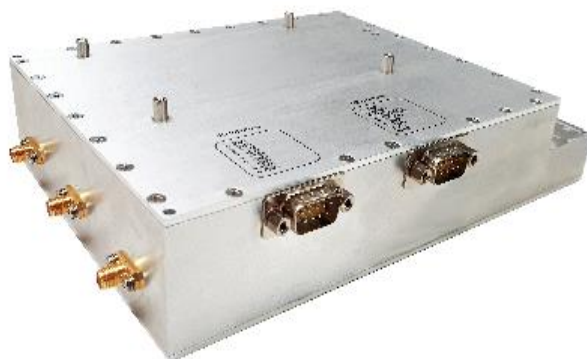


# TA00-03A

## Ka-band 1T\*1R Transceiver

### General Description

The TA00-03A is a general 1TX \* 1RX 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	1.8GHz	1.4~2.2GHz
Output Frequency	26.5 ~ 27.3 GHz	LTE 1000 MHz
Bandwidth	800MHz	
Gain	<b>2TX * 2RX</b> 50 dB	@ ATT 3dB offset
Input Power	-25 dBm	
Output Power	+25 ~ +28 dBm	1C 20MHz LTE, PAR=7.8dB @ 0.01% CCDF
Gain flatness	2.0 dB	Peak to Peak
Output Detection Range	+2 ~ +28 dBm	CW fixing
ACLR	35dBc min	1C 20MHz LTE, PAR=7.8dB @0.01% CCDF
Frequency Stability	± 0.01ppm	
EVM	5% [w/o Source EVM ]	1C 20MHz LTE, PAR=7.8dB @0.01% CCDF
Tx Switching Time	2 us max	Rising & Falling
Input / Output VSWR	1.5 : 1	

## Ka-band 1T\*1R Transceiver

### Electrical Specification (UL)

Item	Specification	Comment
Input Frequency	26.5~27.3GHz	LTE 1000 MHz
Output Frequency	1.8GHz	1.4~2.2GHz
Bandwidth	800MHz	
Gain	48 dB	@ ATT 3dB offset
Input Power	-58 dBm	
Output Power	-10 dBm	1C 20MHz LTE, PAR=7.8dB @ 0.01% CCDF
Gain flatness	2.0 dB	Peak to Peak
Output Detection Range	-40 ~ -5 dBm	CW fixing
Noise Figure	3.5dB max	
Rx Switching Time	0.5 us max	Rising & Falling
Input / Output VSWR	1.5 : 1	

### Mechanical Specification

Parameter	Specification	Comment
Input / Output Connectors	SMA(F) / K-type(F)	
Power Consumption	50W max	Including DL / UL
Operating Temperature	-10 ~ +55 °C	
Relative Humidity	0 ~ 95%	Non-condensing