

## GT-S3SCR4

3 Legacy output

	SAT-SCR PORT SPECIFICATION	LEGACY PORT SPECIFICATION
Low Band LO	9.75 GHz	9.75 GHz
High Band LO	10.6 GHz	10.6 GHz
Fixed User Bands	Channel 1: 1210 MHz Channel 2: 1420 MHz Channel 3: 1680 MHz Channel 4: 2040 MHz	/
LO Stability	+/- 1.5 MHz @ room temp. +/- 3 MHz @ over temp.	+/- 1 MHz @ room temp. +/- 2.5 MHz @ over temp.
Noise Figure	0.1 dB (Typ.)	0.1 dB (Typ.)
Gain	60 ~ 66 dB	57 ~ 61 dB
Gain Flatness	+/-0.5dB/26MHz over temp.	+/-0.5dB/26MHz over temp.
Gain Variation	6 dB over temp.	4 dB over temp.
In-Band Spurious	<- 47 dBm over temp.	<- 55 dBm over temp.
Cross-Pol. Isolation	>22 dB over temp.	>22 dB over temp.
Control Signal	DiSEqC-ST	/
Polarity Switching Voltage	SATCR control firmware from ST	10.5 ~ 14.0Vdc 16.0 ~ 21.0Vdc
Band Switching Signal	/	Low Band : 0 kHz High Band : 22 kHz +/- 4kHz
Image Rejection	>40 dB over temp.	>40 dB over temp.
IM3 suppression	>50 dBc @ IF signal power -15 dBm over temp.	>50 dBc @ IF signal power -15 dBm over temp.
LO Freq Phase Noise	Integration phase noise < 2.5 degree RMS @ 10 kHz ~ 13MHz	<-60 dBc @ 1 kHz <-85 dBc @ 10 kHz <-105 dBc @ 100 kHz <-120 dBc @ 1 MHz
Operating Temperature Range	-40°C ~ +65°C	-40°C ~ +65°C
Power Consumption	300 mA	200 mA
Feed Length	42mm	42mm