

Vergelijking Inverto-Inb's: Ultra PLL Single, Black Ultra single en Premium PLL single

Inb-naam	Ultra PLL single	Black Ultra single	Premium PLL single
Technical data	IDLt-SNL412-ULTRA-OPN	IDLb-SINL40-ULTRA-OPP	IDLp-SNL410-PREMU-OPN
Low band input frequency range	10.7 GHz ~ 11.7 GHz	10.7 GHz ~ 11.7 GHz	10.7 GHz ~ 11.7 GHz
Low band output frequency range	950 MHz ~ 1950 MHz	950 MHz ~ 1950 MHz	950 MHz ~ 1950 MHz
Low band LO frequency	9.75 GHz	9.75 GHz	9.75 GHz
High band input frequency range	11.7 GHz ~ 12.75 GHz	11.7 GHz ~ 12.75 GHz	11.7 GHz ~ 12.75 GHz
High band output frequency range	1100 ~ 2150 MHz	1100 ~ 2150 MHz	1100 ~ 2150 MHz
High band LO frequency	10.6 GHz	10.6 GHz	10.6 GHz
Noise figure	0.6 dB typ. (1 dB Max.)	0.2 dB Typ. (0.7dB Max	0.2 dB typ. (0.7 dB max.)
LO temperature drift @ 60°C	± 2.0 MHz max.	+/- 3.0 MHz max.	±1.0 MHz max.
LO Initial accuracy (@ 25° C)	± 1.0 MHz max.	+/- 1.0 MHz max.	±500 kHz max.
LO phase noise @ 1 kHz	-70 dBc/Hz	-	-
LO phase noise @ 10 kHz	-80 dBc/Hz	-90 dBc/Hz max.	-80 dBc/Hz max.
LO phase noise @ 100 kHz	-90 dBc/Hz	-	-
LO phase noise @ 1 MHz	-100 dBc/Hz	-	-
Conversion gain	60 ~ 70 dB	60 dB Min.	56 dB min.
Gain ripple (over 26 MHz bandwidth)	1 dB max. (peak-to-peak)	+/- 0.75 dB	±0.6 dB
Gain variation (over full band)	4 dB max. (peak-to-peak)	+/- 4 dB max.	±3 dB
Image rejection	50 dB min.	40 dB min.	40 dB min
3th order intermodulation - ICP3	+10 dBm min	-	10 dBm min
1 dB compression point (@ output)	0 dBm min.	0.0 dBm min.	0 dBm min
Cross polarization isolation	22 dB min.	22 dB min	22 dB min
Control signal Ca (V)	10.0 V ~ 14.0 V	10.0 V ~ 14.0 V	11.0 V ~ 14.0 V
Control signal Cb (H)	16.0 V ~ 20.0 V	16.0 V ~ 20.0 V	16.0 V ~ 20.0 V
Control signal Cc (band switching)	22 kHz ± 4 kHz, 0.4V – 0.8V pp	22 +/- 4 kHz	22 kHz ±4 kHz , 0.4 V ~ 0.8V pp
Output VSWR	2.0 : 1 max.	2.0 : 1	2.5 : 1
In band spurious level	-65 dBm max.	- 60 dBm max	-60 dBm max.
Current consumption	100 mA max. (10 VDC ~ 20 VDC)	120 mA max. @ 11 ~ 20V	80 mA max. @ 11 VDC ~ 20 VDC
Operating temperature	-30 °C ~ +60 °C	-30 °C ~ +60 °C	-35 °C ~ +60 °C
Output impedance	75 Ω (F-type)	75 Ω	75 Ω
Output connector	x1 F-type (female)	F-type (female)	F-type (female)
Weight	111.2 g	151 g	136 g
Dish F/D ratio			0.6