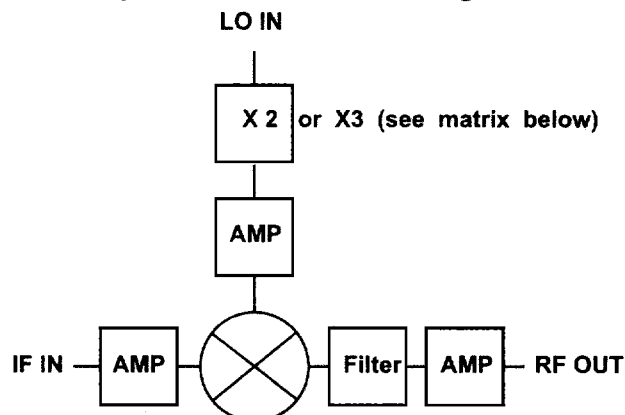


DBS Up-Converter Capabilities

Up-Converter Block Diagram



Up Converter Product Family Specifications:

* Output RF (GHz)	20-26.5 *	26.5-28.5 *	28.5-30.5 *	30.5-32.5 *	37-40 *	40.5-42.5 *
DBS P/N	DUC-2026N810	DUC-2628N810	DUC-2830N810	DUC-3032N810	DUC-3740N810	DUC-4042N810
Input LO Power (dBm)	10 min.	10 min.	10 min.	10 min.	10 min.	10 min.
Input LO (GHz)	9.0 - 12.25	12.25-13.25	13.25-14.25	14.25-15.25	11.66-12.67	12.83-13.5
** Input IF (GHz)	2.0 +/- 150 ** MHz	2.0 +/- 150 ** MHz	2.0 +/- 150 ** MHz	2.0 +/- 150 ** MHz	2.0 +/- 150 ** MHz	2.0 +/- 150 ** MHz
IF/RF Conv.	20 dB typ.	20 dB typ.	20 dB typ.	20 dB typ.	20 dB typ.	20 dB typ.
*** RF Out	0 dBm min. ***	0 dBm min. ***	0 dBm min. ***	0 dBm min. ***	0 dBm min. ***	0 dBm min. ***
Input P1dB	-20 dBm typ.	-20 dBm typ.	-20 dBm typ.	-20 dBm typ.	-20 dBm typ.	-20 dBm typ.
VSWR	2.5/2.0 RF/IF	2.5/2.0 RF/IF	2.5/2.0 RF/IF	2.5/2.0 RF/IF	2.5/2.0 RF/IF	2.5/2.0 RF/IF
Current (mA)	500 max.	500 max.	500 max.	500 max.	500 max.	500 max.
Vdc (V)	+12 to +15	+12 to +15	+12 to +15	+12 to +15	+12 to +15	+12 to +15
Connectors	SMA-F (LO, IF), WG (RF)	SMA-F (LO, IF), WG (RF)	SMA-F (LO, IF), WG (RF)	SMA-F (LO, IF), WG (RF)	SMA-F (LO, IF), WG (RF)	SMA-F (LO, IF), WG (RF)
Dimension	2"x 1.5"x 0.6"	2"x 1.5"x 0.6"	2"x 1.5"x 0.6"	2"x 1.5"x 0.6"	2"x 1.5"x 0.6"	2"x 1.5"x 0.6"
Temp. Range	-30 to +70C	-30 to +70C	-30 to +70C	-30 to +70C	-30 to +70C	-30 to +70C

Notes:

* Any 300MHz BW.

** IF frequency can be specified at any fixed frequency (+/- 150 MHz) from 1-3 GHz. LO frequency will change accordingly to select desired RF if IF is different than 2.0 GHz. Spurious rejection maybe affected due to filter characteristics if IF is less than 2.0 GHz. Please consult the factory for more information if the desired IF frequency is different than 2.0 GHz.

*** Output power from 10 mW (10 dBm) to 1 Watt (30 dBm) is available with additional cost.

DBS will supply the highest quality products for the best value!