

37 - 40 GHz Transceiver for Linear Modulation

(DBS Part Number: DBS-RXTX3740)

Transmitter Specification

Output RF Frequency (GHz)	:	37 - 40 (any 500 MHz Channel in this band)
Input IF Frequency (GHz)	:	1.5 - 4.5 (any 500 MHz Channel in this band)
IF/RF Conversion Gain (dB)	:	20-min/30 typ
Output 1dB Power (dBm)	:	18 min.
Spurious Rejection (dBc)	:	-60 max.
Includes carrier and lower side band:	:	20 min./ 30 typ.
VSWR (:1)	:	2.5/2.5 max., RF/IF
IF Input Power (dBm)	:	-10 typ
Gain Control (dB)	:	10 min

Receiver Specification

Input RF Frequency (GHz)	:	37- 40 (any 500 MHz channel in this Band)
Output IF Frequency (GHz)	:	1.5 - 4.5 (any 500 MHz channel in this Band)
RF/IF Conversion Gain (dB)	:	20 min./ 30 typ.
LO/RF Leakage (dBm)	:	-30 max.
Image Reject (dBc)	:	20 min.
Input P1dB (dBm)	:	-20 min
Noise Figure (dB)	:	7.0 max.
Gain Control (dB)	:	10 min
VSWR (:1)	:	2.5/2.5 max., RF/IF

LO Specification

Input LO Frequency (GHz)	:	11.6 -12.66 typ.
Input LO Power (dBm)	:	10 min
Voltage (Vdc)	:	+12 to +15
Current (ma)	:	1700 max
Spec. Temp. Range (degree C)	:	-30 to +70
Connectors	:	SMA-F (LO, IF in, IF out) WR28 (RF in, RF out) Molex (DC, Control)

37 - 40 GHz Transceiver Block Diagram

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