

TRIAX® Universal Twin LNB

for connection to two separate set-top boxes

Type:	TITW 001 Universal Twin, Slim Line RAL 7035	CS 320 T Universal Twin, RAL 7035	THTW 01 High Gain TWIN LNB	TTW 006 Universal Twin, RAL 7035	TTW 007 Universal Twin, RAL 7016
Art. no.	304475	350042	304466	304436	304438
CHARACTERISTICS					
Phase noise @ 1 kHz	- 50dBc/Hz	- 60dBc/Hz	- 60dBc/Hz	- 50dBc/Hz	- 50dBc/Hz
Phase noise @ 10 kHz	- 75dBc/Hz	- 80dBc/Hz	- 75dBc/Hz	- 75dBc/Hz	- 75dBc/Hz
Phase noise @ 100 kHz	- 95dBc/Hz	- 100dBc/Hz	- 100dBc/Hz	- 95dBc/Hz	- 95dBc/Hz
Spurious level	- 60 (max.)dBm	- 60 (max.)dBm	- 30 (max.)dBm	- 60 (max.)dBm	- 60 (max.)dBm
Image rejection (min.)	40dBdB	40dBdB	35dBdB	40dBdB	40dBdB
Feedhorn F/D @ 11.7	0.615	0.615	0.6	0.615	0.615
LO temperature drifting	± 1/± 3 MHz				
Frequency stability (-40 ~ +60 °C)	± 2.1:1MHz	± 2.0:1MHz	MHz	± 2.1:1MHz	± 2.1:1MHz
Switching position	nonenone	nonenone		nonenone	nonenone
Switching low band	0.0kHz	0.0kHz	0.0kHz	0.0kHz	0.0kHz
Switching high band	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz	22 (± 4)kHz
FREQUENCY					
Output frequency high band	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz	1100 - 2150GHz
Output frequency low band	950 - 1950GHz	950 - 1950GHz	950 - 2150GHz	950 - 1950GHz	950 - 1950GHz
LO frequency high band	10.6GHz	10.6GHz	10.6GHz	10.6GHz	10.6GHz
LO frequency low band	9.75GHz	9.75GHz	9.75GHz	9.75GHz	9.75GHz
Input frequency high band	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz	11.7 - 12.75GHz
Input frequency low band	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz	10.7 - 11.7GHz
GAIN					
Gain flatness (across 26 MHz segm)	± 1.0 (typ.)dB	± 1.0 (typ.)dB	± 1.5 (typ.)dB	± 1.0 (typ.)dB	± 1.0 (typ.)dB
Gain variation (over operating band)	5 p-p (typ.)	5 p-p (typ.)		5 p-p (typ.)	5 p-p (typ.)
Conversion gain (max.)		62dB	76dB	64dB	64dB
Conversion gain (min.)		50dB	58dB	50dB	50dB
Conversion gain (typ.)	56dB	56dB	67dB	dB	dB
Noise figure max.	0.3dB	0.3dB	0.8dB	0.3dB	0.3dB
ISOLATION					
Cross polarization isolation	25 typ.dB	25 typ.dB	18/20 typ.dB	25 typ.dB	25 typ.dB
OPERATIONAL					
AC Supply voltage	VAC	VAC	VAC	VAC	VAC
DC Operating voltage	VDC	VDC	10.5 - 21VDC	VDC	VDC
DC Current consumption (typ.)	190mA	140mA	170mA	170mA	170mA
Operating voltage vertical	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC	15.5 ~ 21.0V/DC	15.5 ~ 21.0V/DC
Operating voltage horizontal	10.5 ~ 14.5V/DC	15.5 ~ 21V/DC	15.5 ~ 21.0V/DC	10.5 ~ 14.5V/DC	10.5 ~ 14.5V/DC
Operating temperature range	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
CONNECTORS					
Connector Type	F-female	F-female	F-female	F-female	F-female
MECHANICAL					
Packing QTY	50	50		50	50
Max. depth incl. feedhorn	135mm	145mm	mm	135mm	135mm
Colour	RAL 7035	RAL 7035	RAL 7035	RAL 7035	RAL 7016
Diameter	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm	Ø 40mm
Height (mm)	137mm	137mm		137mm	137mm
Depth (mm)	97mm	97mm		97mm	97mm
Width (mm)	59mm	59mm		59mm	59mm
Weight (kg)					

TERRESTRIAL
RECEPTION

SATELLITE
& FIBRE
RECEPTION

CABLE TV
(CATV)

HEADENDS
CAS SYSTEM
MODULATORS

CABLES &
CONNECTORS

OUTLETS
TAPS & SPLITTER

INHOUSE
CONNECTIVITY

SURVEILLANCE
(CCTV)

INSTRUMENTS
TOOLS &
CABINETS

TECHNICAL
APPENDIX