

Triax LNB units - the best choice



Complete range of LNB units, adopting the latest cutting-edge RF technology

- Full KU-band coverage for both analogue and digital reception
- Excellent noise figure and low phase noise
- High gain and excellent cross-pole isolation
- High output and low power consumption
- Qualified for harsh environments
- Waterproof
- Single packed in gift box

+ 5 dB gain

Technical data

Type			TSI 005	TSI 003	TSI 004
Part No.			Single universal 300429	Single universal 300430	Single universal 300432
Colour (light grey)			Ral 7035	Ral 7035	Ral 7035
RF input					
Input frequency range	Low band	GHz	10.7 ~ 11.7	10.7 ~ 11.7	10.7 ~ 11.7
	High band	GHz	11.7 ~ 12.75	11.7 ~ 12.75	11.7 ~ 12.75
Feedhorn		GHz	F/D = 0.615 @ 11.7	F/D = 0.615 @ 11.7	F/D = 0.615 @ 11.7
IF output					
Output frequency range	Low band	MHz	950 ~ 1950	950 ~ 1950	950 ~ 1950
	High band	MHz	1100 ~ 2150	1100 ~ 2150	1100 ~ 2150
Output connector type			75Ω female	75Ω female	75Ω female
Output VSWR @ room temp.			2.5:1 (typ.)	2.5:1 (typ.)	2.5:1 (typ.)
Local oscillator					
Frequency	Low band	GHz	9.75	9.75	9.75
	High band	GHz	10.6	10.6	10.6
Frequency stability		MHz	±2.5 :1 (-40 ~+60°C)	±2.5 :1 (-40 ~+60°C)	±2.5 :1 (-40 ~+60°C)
Phase noise @ room temperature		dBc/Hz	-50 @ 1 kHz (max.)	-50 @ 1 kHz (max.)	-50 @ 1 kHz (max.)
		dBc/Hz	-80 @ 10 kHz (max.)	-80 @ 10 kHz (max.)	-80 @ 10 kHz (max.)
		dBc/Hz	-100 @ 100 kHz max.)	-100 @ 100 kHz max.)	-100 @ 100 kHz max.)
Conversion performance @ room temp.					
Conversion gain	(Typ.)	dB	60	56	56
	(Max.)	dB	65	62	62
Gain variation (over operating band)		dB	5 p-p (typ.)	5 p-p (typ.)	5 p-p (typ.)
Gain flatness (across 26 MHz segm)		dB	± 0.5 (typ.)	± 0.5 (typ.)	± 0.5 (typ.)
Output power @ 1 dB gain comp.		dBm	5 (typ.)	5 (typ.)	5 (typ.)
Spurious level		dBm	- 65 (max.)	- 65 (max.)	- 65 (max.)
Noise figure	(typ.)	dB	0.3	0.3	0.3
	(max.)	dB	0.6	0.6	0.6
Image rejection		dB	45 (min.)	45 (min.)	45 (min.)
Cross polarization isolation		dB	25 Typ. (20 min.)	25 Typ. (20 min.)	25 Typ. (20 min.)
Power requirements					
DC current consumption (typ.)		mA	150	110	110
Operating voltage	Vertical	VDC	10.5 ~ 14.5	10.5 ~ 14.5	10.5 ~ 14.5
	Horizontal	VDC	15.5 ~ 21	15.5 ~ 21	15.5 ~ 21
Switching	Low band	Hz	0	0	0
	High band	KHz	22 ± 4	22 ± 4	22 ± 4
Operating temperature range		°C	-40 ~ +60	-40 ~ +60	-40 ~ +60
Dimensions					
Diameter		mm	40	40	40
Width x Height x Depth		mm	59 x 59 x 112	59 x 59 x 112	59 x 59 x 112
Max. depth incl. feedhorn		mm	112	112	112
Weight		kg	0.130 ±0.025	0.130 ±0.025	0.130 ±0.025
Packing size		pcs.	50	50	50