

UV1300 MK3 Family

Analog Terrestrial Tuners

Tuners
Tuners



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UV1300 MK3 Family



UV1316T MK3



UV1316 MK3

UV1316K MK3
or UR1316 MK3

Introduction

The UV1316 Mk3 series consist of PLL-tuners for reception of off-air, S-cable and hyperband channels broadcast in the accordance with system B/G, D/K, H, L/L, I/I'.

The UV1336 Mk3 series are the US versions of the above for reception of channels broadcast in accordance with systems M, N.

Standard features

- World Standard Pinning
- Digitally controlled PLL tuning via I²C bus
- Fast 400 kHz I²C bus protocol compatible with 3.3V and 5V micro controllers
- Internal wideband AGC with software programmable TOP and AGC time constants
- Low impedance IF output for direct drive of a wide variety of SAW filters
- UV1316 types comply with CENELEC EN55013, EN55020, CISPR 13
- UV1336 types comply with FCC part 15, BETS-7 (Canada)

Options

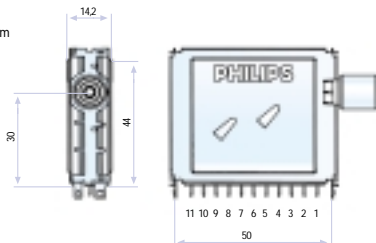
- Connector options include IEC, F and phono with possibility for customizing lengths
- Horizontal mounting option available
- Symmetrical or asymmetrical IF output
- Low Noise Amplifier (LNA) for improved reception of weak signals
- Active/passive splitter type for Dual Window, PIP and TV-VCR combi applications
- Combi TV-FM radio type with FM input via RF connector or pin
- 5-level ADC on UV1316 types
- Switchable FM trap on UV1336 types

Quick reference data of UV1300 MK3 Family

Product	UV1316 MK3					UV1336 MK3
System(s)	B/G, H, D/K, I, I', L, L'					NTSC M + N
Region	Europe, Asia					USA, Taiwan, Latin America, Philippines
Channels (Frequency MHz)						
• Low	E2 - S08 (48.25 - 154.25)					2 to G (55.25 - 157.25)
• Mid	S9 - S38 (161.25 - 439.25)					H to CCC (163.25 - 451.25)
• High	S39 - E69 (447.25 - 855.25)					DDD to 69 (457.25 - 801.25)
FM-radio (UR1300 only)	(87.50 - 108.00)					(87.50-108.00)
IF freq. MHz	B/G	D/K	L'	I	I'	M/N
Picture	38.90	38.90	33.40	39.50	38.90	45.75
Sound1	33.40	32.40	39.90	33.50	32.90	41.25
Sound2	33.16	-	-	33.00	32.40	
Aerial	Phono, IEC, long IEC					Phono, F, (IEC)
IF output	75Ω unbalanced					75Ω, unbalanced
Loadability	500Ω // 40 pF					500Ω // 40 pF
Supply voltage	5 V					5 V
Tuning voltage	33 V					33 V
Regulations	Cenelec EN 55013, EN55020 CISPR 13					FCC, part 15, sub part B BETS-7 (Canada) CISPR 13
Remarks	Channel A (Ireland 45.75 MHz) can always be tuned					

Size

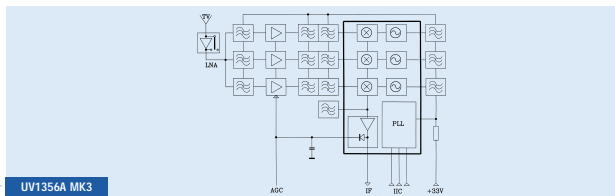
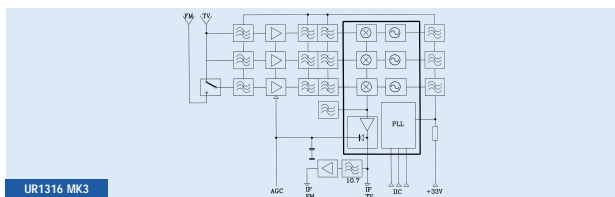
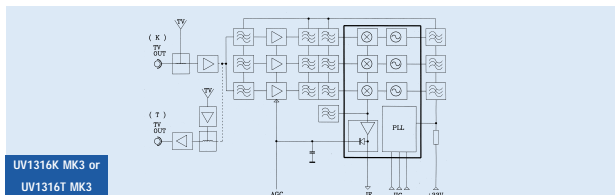
• 50 x 44 x 14,2 mm



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Series UV1300 MK3

Block diagram of Philips' feature tuners



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