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TEF6657HN/V102K

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the industry-proven TEF661X product range, with improved performance and feature set at lower system cost. Both devices are available in HVQFN packages occupying only smallest PCB real estate and are suitable for multi-layer PCBs. The radio receiver includes the FM/AM front-ends, tuning synthesizer, channel

filtering, FM multipath improvement, demodulation, FM stereo decoding, weak signal processing, noise blanking, RDS and DARC support. Stereo audio is provided in digital format on the IPS outputs and on the audio DAC outputs.

The TEF6659 supports the HD Radio and Digital Radio Mondiale (DRM) digital radio standards when used with NXP Semiconductors' digital radio coprocessors such as SAF356X and SAF360X.

Alignment free digital receiver including tuner and software-defined radio processing

High dynamic range IF ADC

FM stereo decoding

ease of control

Features and benefits

- Close X This site uses cookies. Why? Click here to find out more. Fill receiver with a tuning range of 65 MHz to 108 MHz covering Eastern Europe (OIRT), Japan, Europe and US bands
 - AM receiver covering LW, MW and full SW

Command based high-level user interface combining high control flexibility with

- Fully integrated tuning system with low phase noise and fast tuning FM LNA with AGC
 - FM mixer for frequency conversion to a low IF complex signal AM LNA with AGC, matching active and passive antenna applications AM mixer for frequency conversion to a low IF complex signal (AM SVV)
 - Digital IF signal processing including decimation, shift to baseband, AGC control, I/Q correction, variable IF bandwidth filtering (PACS) and demodulation

Baseband I²S output supporting HD Radio and DRM1 with external digital radio

- coprocessor (TEF6659) Blending function for HD Radio reception (TEF6659) AM & FM noise blanking, Signal quality detection and weak signal processing.
- Advanced RDS and RBDS demodulation and decoding MPX output supporting DARC demodulator. One I²S input and one I²S output
- Two mono audio DACs Single 3.3 V supply voltage
- Fast mode l²C-bus (400 kHz) Configurable GPIO pins for RDS, Quality Status Interrupt and generic I²C-bus

The TEF665X is a single tuner AM/FM receiver for automotive applications and

supports analog AM/FM and HD/DRM reception (HD/DRM is supported in TEF6659

Additionally, due to a common technology platform, the TEF665X can be combined

Applications

Qualified in accordance with AEC-Q100

only).

SeriesTEF665X

Quality and reliability disclaimer

DSP-based radio tuner one-chip

controlled I/O

with TEF701X, SAF775X and SAF360X for optimal system application through common crystal oscillator sharing.

All information on this product information page is subject to the subsequent disclaimers: General product disclaimer

Reflow-Mave Product Outline version Packing soldering status

TEF6657HN/V102

TEF6657HNA/102

Type number

TEF6657HN/V102

File name

Package

Type number		Orderable part number		nemical content	RoHS / RHF	Leadfr	Leadfree conversion date			MSL LF	
Quality, reliability & chemical content											
	TEF6657HN/V102	HVQFN32 (80T617-3)	ტ sot617-3_po	o & sot617-3_f	ப் Reel 13" Q1/T1 in Drypack	Active	Standard Marking	TEF6657HN/V102Y (9353 026 13518)			
				.o	Drypack	Active	Marking	(9353	026 1355	57)	

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Multiple in

Orderable part number,

(Ordering code (12NC))

TEF6657HN/V102K

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Format

pdf

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Date

2014-01-29

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Marking

Standard

Always Pb-free

Always Pb-free

Type

Short data sheet

Active

TEF6657HNM102 TEF6657HNW102Y

TEF6657HNW102K

Title

04-12-2014

Results

TEF6657HNW102K

TEF6657HNW102Y

DSP-based radio tuner one-chip

Package

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Documentation for this product	ı
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⊕ TEF665X_SDS

Download all documentation (zip)

Type number	Ordering code (12NC)	Orderable part number	Region	Distributor	ln stock		der antity	Inventory date	Buy online	Samples	
Ordering & availability											
		plastic thermal enhanced very thin quad flat package; no leads; 32 terminals; body 5 x 5 x 0.85 mm				Outline drawing		drawing	pdf	2002-10-21	
	I	Footprint for reflow soldering SOT617-3				† (Reflow soldering		pdf	2009-10-08	
⊕ SOT617-3_518		HVQFN32; Reel pack; SMD, 13" Q1/T1 Standard product orientation Orderable part number ending ,518 or Y Ordering code (12NC) ending 518			ct	*	Packing		pdf	2015-04-01	
⊕ 75017469		NXP DSP-based single-chip radio tuner ICs TEF665x				*	Leaflet		pdf	2013-09-17	

TEF6657HNM102

TEF6657HNM102

Sample

Sample orders normally take 2-4 days for delivery.

9353 026 13557

9353 026 13518

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the Community, these can be NXP technical experts, but also other users.

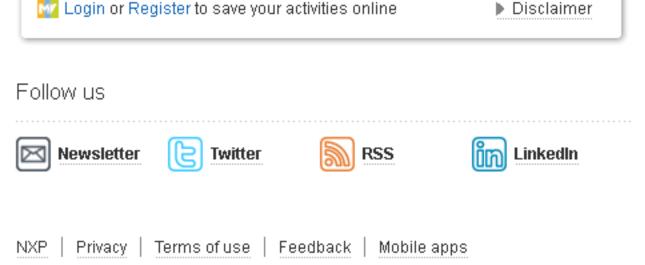
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