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The devices are following the industry-proven background receiver TEF7006 and TEF7007 with improved performance and feature set optimizing the total system. costs. They are completing NXP Semiconductors Car Radio portfolio to provide an efficient, high performing application. The TEF701X are housed in a HVQFN32

package designed for two- and multi-layer PCB applications.

radio coprocessors such as SAF356X and SAF360X.

The radio receiver includes the AM/FM front-ends, tuning synthesizer, channel filtering, demodulation, weak signal processing, noise blanking in FM mode, RDS and DARC reception and optional FM multipath improvements. The TEF7018 supports AM and FM, HD Radio and Digital Radio Mondiale (DRM30) and DRM+). The TEF7016 is an FM-only version and supports optionally the digital radio standards FM-HD Radio and DRM+. For both TEF7016 and TEF7018, these digital radio standards are supported when used with NXP Semiconductors' digital

blanking, AM SoftMute on Modulation and the TEF701X provides digital audio output (mono) via I²S. This site uses cookies. Why? Click here to find out more. Close 🗵

Furthermore the TEF7018 provides the complete feature set including AM IF noise

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

output

I²S audio output

Single 3.3 V supply voltage Fast mode l²C-bus (400 kHz)

Read information with device and tuning status, reception quality and RDS data FM background receiver with a tuning range of 65 MHz to 108 MHz covering Eastern Europe (OIRT), Japan, Europe and US bands AM background receiver (TEF7018) receiver covering LVV, MVV and full SVV

Fully integrated tuning system with low phase noise and fast tuning

Variable IF bandwidth filtering (FM PACS) and demodulation

Advanced RDS and RBDS demodulation and decoding

- Baseband I²S output supporting digital radio standards FM-HD Radio and DRM+ (TEF7016) with external digital radio coprocessor. HD Radio and DRM (TEF7018) with external digital radio coprocessor AM and FM noise blanking, Signal quality detection and weak signal processing
- Excellent RDS sensitivity performance MPX output supporting an external DARC demodulator and RTIC Two mono audio DACs: one analog output for FM MPX and mono analog audio

Configurable GPIO pins for RDS, Quality Status, RDS data available interrupt and

(RDS), Radio Broadcast Data System (RBDS), Traffic Message Channel (TMC) and

When used together with the digital radio coprocessors SAF356X and SAF360X,

Additionally, due to a common technology platform, the TEF701X can be combined with the TEF665X, TEF668X, SAF775X and SAF360X for optimal system application

- generic I²C-bus controlled I/O Qualified in accordance with AEC-Q100
- Applications The TEF701X is a background receiver that can be used for Radio Data System.

digital radio standards background reception can be supported.

background reception for automotive applications. DARC reception is also supported via the MPX output to VICS/RTIC decoders.

through common crystal oscillator sharing.

Scalable advanced background receiver

TEF7018HNW102

TEF7018HNA/102

Scalable advanced background receiver

TEF7018HNW102K

TEF7018HNW102Y

SeriesTEF701X

General product disclaimer

Quality and reliability disclaimer

Reflow-Mave Product Outline version Packing soldering status

Orderable part number,

(Ordering code (12NC))

3

3

Date

2013-07-30

Order samples

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TEF7018HNW102K

3

Format

pdf

Marking

Standard

Always Pb-free

Always Pb-free

Type

Short data sheet

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Type number

TEF7018HNW102

File name

st TEF701X_SDS

Package

Type number		Orderable part number C		emical content RoHS / RHF		Leadfr	Leadfree conversion date			MSL LF
Quality, reliability & chemical content										
	TEF7018HN/V102	HVQFN32 (80T617-3)	ტ sot617-3_po	ტ sot617-3_fi	UReel 13" Q1/T1 in Drypack	Active	Standard Marking	(9353 026 52557) TEF7018HN/V102Y (9353 026 52518)		
					Multiple in Drypack	Active	Standard Marking			

EU/CN ROHS COMPLIANT

EU/CN RoHs COMPLIANT

Tray, Bakeable,

TEF7018HNW102 TEF7018HN/V102Y

Quality and reliability disclaimer

TEF7018HNW102K

Title

Package

Documentation for this product
⊕ Download all documentation (zip)

	Type number	Ordering code	Orderable part	Region	Distributor	ln stock		rder	Inventory	Buy	Samples
(Ordering & availability										
	ტ sot617-3_po		plastic thermal enhanced very thin quad flat package; no leads; 32 terminals; body 5 x 5 x 0.85 mm			*	Outline drawing		pdf	2002-10-21	
			Footprint for reflow soldering SOT617-3			1	Reflow soldering		pdf	2009-10-08	
	ტ 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				*	Packing		pdf	2015-04-01
	- 75017470		NXP DSP-based single-ch	ip backgrou	nd tuners TEF7	01x	1	Leaflet		pdf	2013-09-17

TEF7018HN/V102 9353 026 52518

9353 026 52557

Sample orders normally take 2-4 days for delivery.

TEF7018HNW102

Sample

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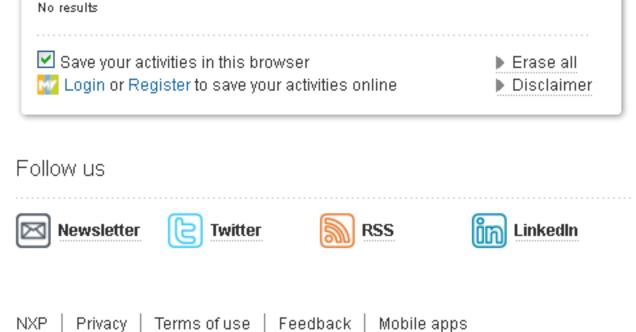
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04-05-2015 TEF7006HNM1,557 04-05-2015 TEF7006HN/V1,557

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