

processing, noise blanking and Radio Data System (RDS) reception. A maximum amount of digital signal processing is used, taking full advantage of the CMOS IC

The output signals of the radio processing block are provided in digital format on the host IS output (only TEF6642 and TEF6646) and in analog formation the audio DAC

The TEF6642 and the TEF6646 support the digital standards HD Radio and Digital

Radio®

Digital Multimedia Broadcasting

Radio · Mobile TV · Multimedia · Traffic Data

Drm

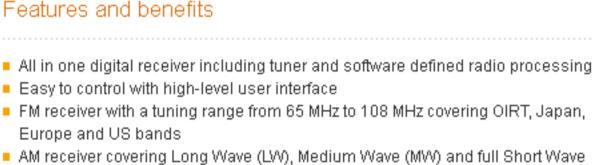
Radio Mondiale (DRM) in combination with NXP terrestrial digital radio

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technology.

outputs.

coprocessors such as SAF356x.



(SW) bands Fully integrated tuning system combining low phase noise and fast tuning times

processing

 FM Low-Noise Amplifier (LNA) with Automatic Gain Control (AGC) FM mixer for frequency conversion to a low Intermediate Frequency (IF) complex

AM front-end LNA and AGC matching active and passive antenna applications

- signal
- AM MVV RF selectivity with integrated capacitor bank and automatic calibration. AM mixer for frequency conversion to a low IF complex signal High dynamic range Sigma-Delta (SD) IF Analog-to-Digital Converter (ADC)

Digital IF signal processing including decimation, shift to baseband, AGC control,

In-phase/Quadrature-phase (I/Q) correction, Precision Adjacent Channel

Suppression (PACS), FM multipath suppression and demodulation

- Baseband I²S output for support of HD Radio and DRM with external digital radio coprocessor (TEF6642 and TEF6646) Signal quality detection, FM stereo decoding, noise blanking and weak signal.
- Advanced RDS and Radio Broadcast Data System (RBDS) demodulation and decoding with versatile output configuration One synchronous I²S audio input and audio output in master mode (TEF6642 and
- Digital audio processing with volume scaling (-12 dB to +6 dB) HD Radio blending (TEF6642 and TEF6646) One stereo audio Digital-to-Analog Converter (DAC)

Single tuner AM/FM receiver for automotive applications supporting analog AM/FM

- Single 3.3 V supply voltage Fast mode l²C-bus (400 kHz)
- Built-in 1.2 V regulator control circuit Qualified in accordance with AEC-Q100
- Applications
 - and HD/DRM reception

Highly efficient low IF radio one-chip

General product disclaimer

Outline version

31-Mar-16

SeriesTEF6640; TEF6642; TEF6644; TEF6646

Quality and reliability disclaimer

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

Type number

Package

935295842518

TEF6642HW/V101,557

TEF6642HWW101,518

Package

Multiple in Marking (9352 958 42557) product Drypack TEF6642HWW101 ⊕ sot855-4_po HTQFP64 Dool 12"

All type numbers in the table below are discontinued. See the table Discontinuation information at the bottom of this page for more information.

soldering

Reflow-Mave

	(SOT855-4)				Replacement product	Standard Marking	TEF6642HWWV101,518 (9352 958 42518)			
Discontinuation information										
Type number	nber (12NC)		Last-time delivery date	Replacement product	DN Notice	Status	Comments			
TEF6642HW/V101	935295842557	31-Mar-16	30-Jun-16	TEF6688HN/V102	DN NVD DN 201506025DN	Full	TEF6688AHNN/205, 2nd source version to			

TEF6688HNN102

RoHS / RHF

EU/CN ROHS COMPLIANT

EU/CN RoHs COMPLIANT

Packing

Bakeable,

Tray,

Product

Discontinued

Replacement

NXP-DN_201506035DN

NXP-DN_201506035DN

NXP-DN_201506035DN

DN

∅ № D

status

Marking

Standard

withdrawal

withdrawal

withdrawal

Full

Leadfree conversion date

Always Pb-free

Always Pb-free

Orderable part number,

(Ordering code (12NC))

TEF6642HWW101,557

be released in Q1

TEF6688AHNN205,

be released in Q1

2nd source version to

MSL LF

3

3

2016.

2016.

MSL

3

3

be released in Q1

TEF6688AHN/V205,

2016.

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All type numbers in the table below are discontinued. See the table Discontinuation information at the bottom of this page for more information. Type number Orderable part number

Quality, reliability & chemical content

TEF6642HWW101

TEF6642HWW101

TEF6642HWW101

Quality and reliability disclaimer.

30-Jun-16

Chemical content

TEF6642HWW101

TEF6642HWW101

Discontinuation information									
Type number	Ordering code (12NC)	Last-time buy date	Last-time delivery date	Replacement product	DN Notice	Status	Comments		
TEF6642HWW101	935295842557	31-Mar-16	30-Jun-16	TEF6688HN/V102	DN NVD DN 204506025DN	Full	TEF6688AHN/V205, 2nd source version t		

TEF6642HW/V101	935295842518	31-Mar-16	30-Jun-16	TEF6688HN/V102	DN NXP-DN_2	N XP-DN_201506035DN		awal be	be released in Q1 2016.	
Documentation for this product										
File name	\$	Title			+	Туре	\$	Format	Date	\$
<u> </u>		High-end, DSP-based AM/FM single tuner with support for digital radio - TEF664x			rt for 🗼	Leaflet		pdf	2012-09-03	
		plastic thermal enhanced thin quad flat package; 64 leads exposed die pad				Outline	Outline drawing		2011-04-15	

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TEF6614

TEF6614

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