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epoxy package contains an IR filter.

The demodulated output signal can be directly connected to

The TSOP754..W series devices are optimized to suppress almost all spurious pulses from energy saving lamps like CFLs. The AGC4 used in the TSOP754..W may suppress some data signals. The TSOP752..W series are provided primarily for compatibility with old AGC2 designs. New designs should prefer the TSOP754..W series containing the newer AGC4.

These components have not been qualified according to

www.vishay.com	Vishay Semiconductors
IR Receiver Modules for Rem	note Control Systems

21589

click logo to get started

DESIGN SUPPORT TOOLS

C D Models

MECHANICAL DATA

Pinning: 1, 4 = GND, 2 = V_S, 3 = OUT

ORDERING CODE

DADTS TARI E

Taping:

TSOP75...WTT - top view taped TSOP75...WTR - side view taped

FEATURES

- Very low supply current
- · Photo detector and preamplifier in one package

TSOP752..W, TSOP754..W

- Internal filter for PCM frequency
- Supply voltage: 2.5 V to 5.5 V
- Improved immunity against ambient light
- · Capable of side or top view
- Low profile 2.35 mm
- Insensitive to supply voltage ripple and noise
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

DESCRIPTION

The TSOP75...W series are miniaturized SMD IR receiver modules for infrared remote control systems. Two PIN diodes and a preamplifier are assembled on a leadframe, the

a microprocessor for decoding.

automotive specifications.

PARISIADLE				
AGC		LEGACY, FOR LONG BURST REMOTE CONTROLS (AGC2)	RECOMMENDED FOR LONG BURST CODES (AGC4)	
	30 kHz	TSOP75230W	TSOP75430W	
	33 kHz	TSOP75233W	TSOP75433W	
Carrier	36 kHz	TSOP75236W	TSOP75436W ⁽¹⁾⁽²⁾⁽³⁾	
frequency	38 kHz	TSOP75238W	TSOP75438W ⁽⁴⁾⁽⁵⁾	
40 kHz		TSOP75240W	TSOP75440W	
	56 kHz	TSOP75256W	TSOP75456W ⁽⁶⁾⁽⁷⁾	
Package		Heimdall no lens		
Pinning		1, 4 = GND, 2 = V _S , 3 = OUT		
Dimensions	s (mm)	6.8 W x 3.0 H x 2.35 D		
Mounting		SMD		
Application		Remote control		
Best choice	e for	⁽¹⁾ RC-5 ⁽²⁾ RC-6 ⁽³⁾ Panasonic ⁽⁴⁾ NEC ⁽⁵⁾ Sharp ⁽⁶⁾ r-step ⁽⁷⁾ Thomson RCA		



RoHS

COMPLIANT

HALOGEN FREE

GREEN

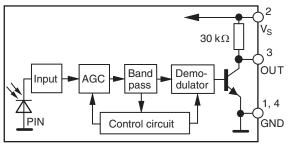
(5-2008)





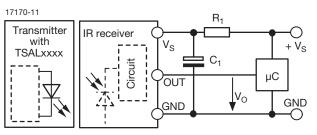
Vishay Semiconductors

BLOCK DIAGRAM



20445-1

APPLICATION CIRCUIT



 $R_{\rm 1}$ and $C_{\rm 1}$ recommended to reduce supply ripple for $V_{\rm S}$ < 2.8 V

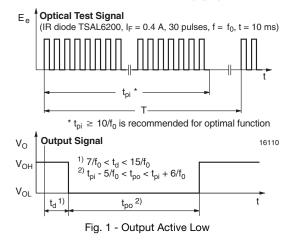
ABSOLUTE MAXIMUM RATINGS				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Supply voltage		V _S	-0.3 to +6	V
Supply current		I _S	3	mA
Output voltage		Vo	-0.3 to (V _S + 0.3)	V
Output current		Ι _Ο	5	mA
Junction temperature		Тj	100	°C
Storage temperature range		T _{stg}	-25 to +85	°C
Operating temperature range		T _{amb}	-25 to +85	°C
Power consumption	T _{amb} ≤ 85 °C	P _{tot}	10	mW

Note

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only
and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification
is not implied. Exposure to absolute maximum rating conditions for extended periods may affect the device reliability

ELECTRICAL AND OPTICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply voltage		Vs	2.5	-	5.5	V
Oursely comment	$E_v = 0, V_S = 3.3 V$	I _{SD}	0.27	0.35	0.45	mA
Supply current	E _v = 40 klx, sunlight	I _{SH}	-	0.45	-	mA
Transmission distance	$E_v = 0$, test signal see Fig. 1, IR diode TSAL6200, I _F = 200 mA	d	-	30	-	m
Output voltage low	$I_{OSL} = 0.5 \text{ mA}, E_e = 0.7 \text{ mW/m}^2$, test signal see Fig. 1	V _{OSL}	-	-	100	mV
Minimum irradiance Pulse width tolerance: $t_{pi} - 5/f_o < t_{po} < t_{pi} + 6/f_o$, test signal see Fig. 1		E _{e min.}	-	0.25	0.5	mW/m ²
Maximum irradiance	t_{pi} - 5/f _o < t_{po} < t_{pi} + 6/f _o , test signal see Fig. 1	E _{e max.}	30	-	-	W/m ²
Directivity	Angle of half transmission distance	φ _{1/2}	-	± 75	-	deg

TYPICAL CHARACTERISTICS (Tamb = 25 °C, unless otherwise specified)



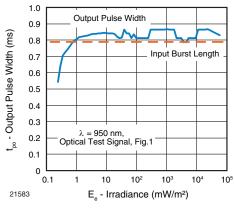


Fig. 2 - Pulse Length and Sensitivity in Dark Ambient

Rev. 1.9, 26-Apr-2018

Document Number: 82496

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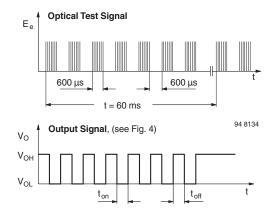


Fig. 3 - Output Function

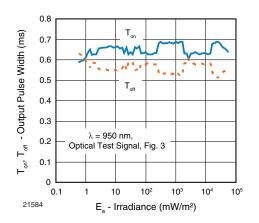


Fig. 4 - Output Pulse Diagram

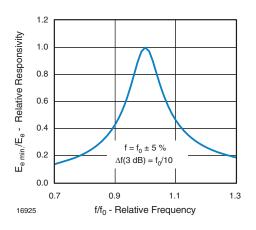


Fig. 5 - Frequency Dependence of Responsivity

TSOP752..W, TSOP754..W

Vishay Semiconductors

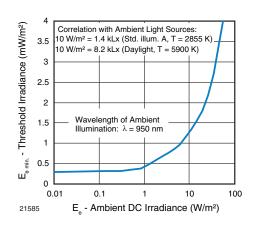


Fig. 6 - Sensitivity in Bright Ambient

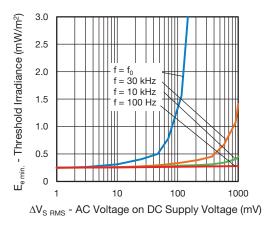


Fig. 7 - Sensitivity vs. Supply Voltage Disturbances

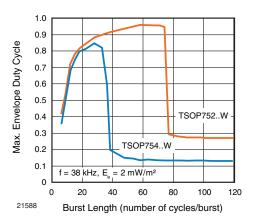


Fig. 8 - Max. Envelope Duty Cycle vs. Burst Length

Rev. 1.9, 26-Apr-2018



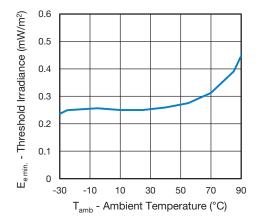


Fig. 9 - Sensitivity vs. Ambient Temperature

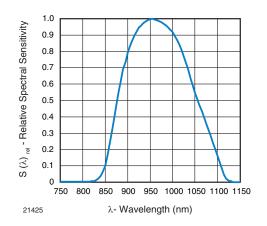


Fig. 10 - Relative Spectral Sensitivity vs. Wavelength

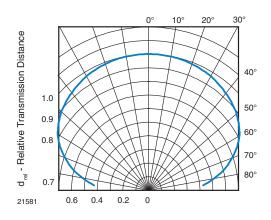


Fig. 11 - Horizontal Directivity

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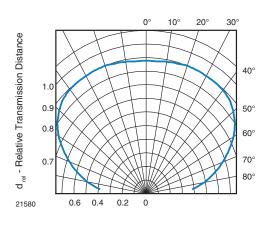


Fig. 12 - Vertical Directivity

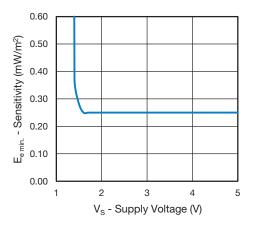


Fig. 13 - Sensitivity vs. Supply Voltage

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SUITABLE DATA FORMAT

This series is designed to suppress spurious output pulses due to noise or disturbance signals. The devices can distinguish data signals from noise due to differences in frequency, burst length, and envelope duty cycle. The data signal should be close to the device's band-pass center frequency (e.g. 38 kHz) and fulfill the conditions in the table below.

When a data signal is applied to the product in the presence of a disturbance, the sensitivity of the receiver is automatically reduced by the AGC to insure that no spurious pulses are present at the receiver's output.

Some examples which are suppressed are:

- DC light (e.g. from tungsten bulbs sunlight)
- Continuous signals at any frequency
- Strongly or weakly modulated patterns from fluorescent lamps with electronic ballasts (see Fig. 14 or Fig. 15)

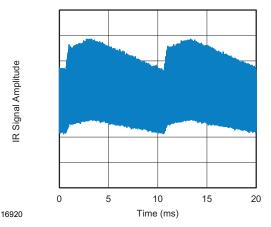


Fig. 14 - IR Disturbance from Fluorescent Lamp With Low Modulation

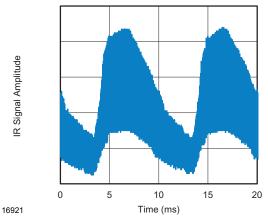


Fig. 15 - IR Disturbance from Fluorescent Lamp With High Modulation

	TSOP752W	TSOP754W
Minimum burst length	10 cycles/burst	10 cycles/burst
After each burst of length a minimum gap time is required of	10 to 70 cycles ≥ 10 cycles	10 to 35 cycles ≥ 10 cycles
For bursts greater than a minimum gap time in the data stream is needed of	70 cycles > 4 x burst length	35 cycles > 10 x burst length
Maximum number of continuous short bursts/second	1800	1500
NEC code	Yes	Preferred
RC5 / RC6 code	Yes	Preferred
Thomson 56 kHz code	Yes	Preferred
Sharp code	Yes	Preferred
Suppression of interference from fluorescent lamps	Mild disturbance patterns are suppressed (example: signal pattern of Fig. 14)	Complex and critical disturbance patterns are suppressed (example: signal pattern of Fig. 15 or highly dimmed LCDs)

Notes

• For data formats with short bursts please see the datasheet for TSOP753..W

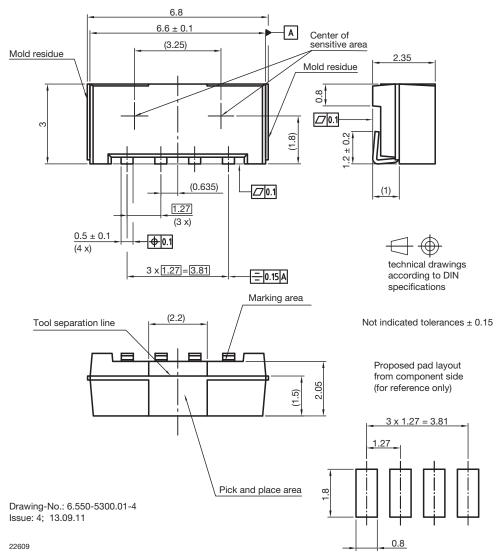
For Sony 12, 15, and 20 bit IR codes please see the datasheet of TSOP75S40FW

Rev. 1.9, 26-Apr-2018



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PACKAGE DIMENSIONS in millimeters



ASSEMBLY INSTRUCTIONS

Reflow Soldering

- Reflow soldering must be done within 72 h while stored under a max. temperature of 30 °C, 60 % RH after opening the dry pack envelope
- Set the furnace temperatures for pre-heating and heating in accordance with the reflow temperature profile as shown in the diagram. Exercise extreme care to keep the maximum temperature below 260 °C. The temperature shown in the profile means the temperature at the device surface. Since there is a temperature difference between the component and the circuit board, it should be verified that the temperature of the device is accurately being measured
- Handling after reflow should be done only after the work surface has been cooled off

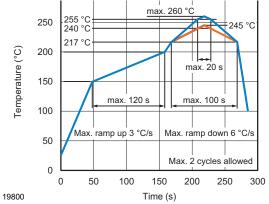
Manual Soldering

- Use a soldering iron of 25 W or less. Adjust the temperature of the soldering iron below 300 °C
- Finish soldering within 3 s
- Handle products only after the temperature has cooled off

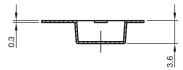
Rev. 1.9, 26-Apr-2018

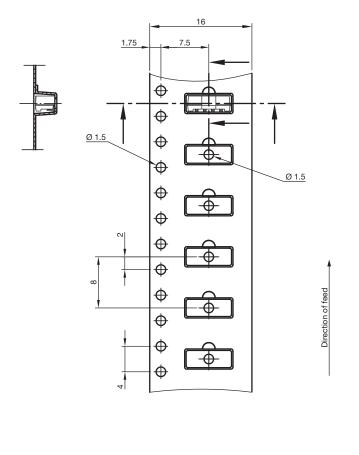


VISHAY LEAD (Pb)-FREE REFLOW SOLDER PROFILE



TAPING VERSION TSOP..TR DIMENSIONS in millimeters





technical drawings according to DIN specifications

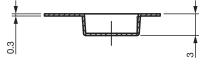
Drawing-No.: 9.700-5342.01-4 Issue: 2; 12.06.13

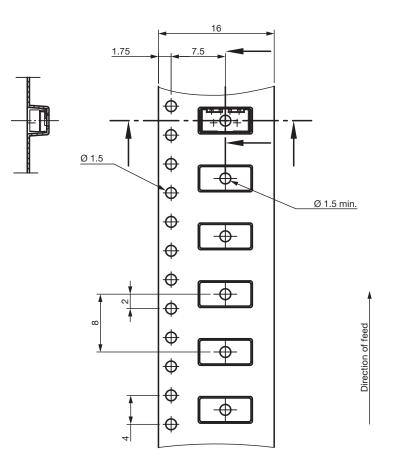
Rev. 1.9, 26-Apr-2018

Document Number: 82496



TAPING VERSION TSOP..TT DIMENSIONS in millimeters







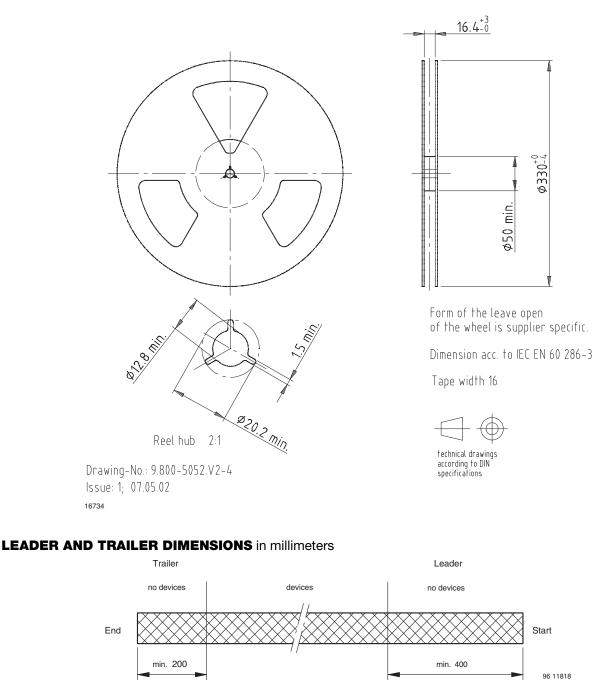
technical drawings according to DIN specifications

Drawing-No.: 9.700-5341.01-4 Issue: 3; 06.10.15



REEL DIMENSIONS in millimeters

Vishay Semiconductors



COVER TAPE PEEL STRENGTH

According to DIN EN 60286-3 0.1 N to 1.3 N 300 ± 10 mm/min. 165° to 180° peel angle

LABEL

Standard bar code labels for finished goods

The standard bar code labels are product labels and used for identification of goods. The finished goods are packed in final packing area. The standard packing units are labeled with standard bar code labels before transported as finished goods to warehouses. The labels are on each packing unit and contain Vishay Semiconductor GmbH specific data.

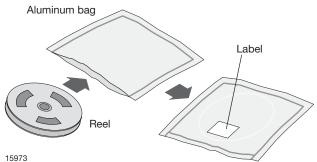
Rev. 1.9, 26-Apr-2018



PLAIN WRITING	ABBREVIATION	LENGTH
Item-description	-	18
Item-number	INO	8
Selection-code	SEL	3
LOT-/serial-number	BATCH	10
Data-code	COD	3 (YWW)
Plant-code	PTC	2
Quantity	QTY	8
Accepted by	ACC	-
Packed by	PCK	-
Mixed code indicator	MIXED CODE	-
Origin	XXXXXXX+	Company logo
LONG BAR CODE TOP	ТҮРЕ	LENGTH
Item-number	Ν	8
Plant-code	Ν	2
Sequence-number	Х	3
Quantity	Ν	8
Total length	-	21
SHORT BAR CODE BOTTOM	ТҮРЕ	LENGTH
Selection-code	Х	3
Data-code	Ν	3
Batch-number	Х	10
Filter	-	1
Total length	-	17

DRY PACKING

The reel is packed in an anti-humidity bag to protect the devices from absorbing moisture during transportation and storage.



FINAL PACKING

The sealed reel is packed into a cardboard box.

RECOMMENDED METHOD OF STORAGE

Dry box storage is recommended as soon as the aluminum bag has been opened to prevent moisture absorption. The following conditions should be observed, if dry boxes are not available:

- Storage temperature 10 °C to 30 °C
- Storage humidity \leq 60 % RH max.

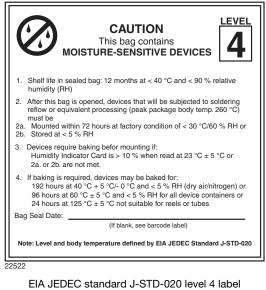
After more than 72 h under these conditions moisture content will be too high for reflow soldering.

In case of moisture absorption, the devices will recover to the former condition by drying under the following condition: 192 h at 40 °C + 5 °C / - 0 °C and < 5 % RH (dry air / nitrogen) or

96 h at 60 °C + 5 °C and < 5 % RH for all device containers or

24 h at 125 °C + 5 °C not suitable for reel or tubes.

An EIA JEDEC[®] standard J-STD-020 level 4 label is included on all dry bags.



is included on all dry bags

Rev. 1.9, 26-Apr-2018

Document Number: 82496



ESD PRECAUTION

Proper storage and handling procedures should be followed to prevent ESD damage to the devices especially when they are removed from the antistatic shielding bag. Electrostatic sensitive devices warning labels are on the packaging.

VISHAY SEMICONDUCTORS STANDARD BAR CODE LABELS

The Vishay Semiconductors standard bar code labels are printed at final packing areas. The labels are on each packing unit and contain Vishay Semiconductors specific data.

PartNo: TSOP75236TT 01Y: 2200 Selicode:1010 Or gir PHILIPPINES Machine:12 >TC: 18	Lot: F0033958A) Lot: F902307 FAC Befch: 2010254H0 FAC Region: 210 SL: 0010 Senate: WWAS0050160 Operator 327 Cac0F96 Rails (<u>Pt-fec</u>)



Tape and Reel Standards for Surface-Mount IR Receiver Modules

Vishay Semiconductor surface-mount IR receivers are packaged on tape and reel. The following specification is based on IEC publication 286, which takes the industrial requirements for automatic insertion into account.

Absolute maximum ratings, mechanical dimensions, optical and electrical characteristics for taped devices are identical to the basic catalog types and can be found in the specifications for untaped devices.

PACKAGING

The tapes of components are available on reels. Each reel is marked with labels which contain the following information:

- Vishay
- Туре
- Group
- Tape code, normally part of type name
- Production code
- Quantity

MISSING COMPONENTS

Up to 3 consecutive components may be missing if the gap is followed by at least 6 components. A maximum of 0.5 % of the components per reel quantity may be missing. At least 5 empty positions are present at the start and the end of the tape to enable tape insertion.

Tensile strength of the tape: > 15 N

NUMBER OF COMPONENTS

- A. Panhead: quantity per reel:
 TT, top view package, 1190 pcs
 TR, side view package, 1120 pcs
- B. Heimdall: quantity per reel:
 TT, top view package, 2200 pcs
 TR, side view package, 2300 pcs
- C. Heimdall without lens: quantity per reel: WTT, top view package, 2200 pcs WTR, side view package, 2300 pcs
- D. Belobog: quantity per reel: TT1, top view package, 1800 pcs
- E. Belobog with shield: quantity per reel: TT1, top view package, 1500 pcs
- F. Minimold DF1P: quantity per reel: DF1P, 1100 pcs
- G. TVCastSMD TR1: quantity per reel: TR1, side view package, 2000 pcs

ORDER DESIGNATION

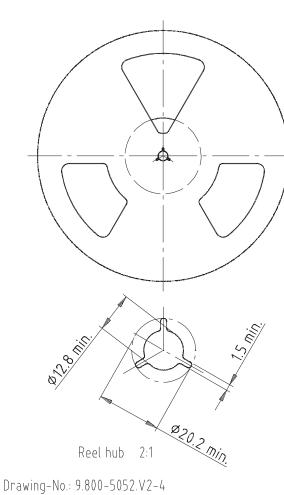
The type designation of the device is extended by TT or TT1 for top view or TR for side view.

Example:

TSOP6238TR (reel packing) TSOP75238TR (reel packing) TSOP75338WTT (reel packing) TSOP57438TT1 (reel packing) TSOP57238HTT1 (reel packing) TSOP39438TR1 (reel packing)



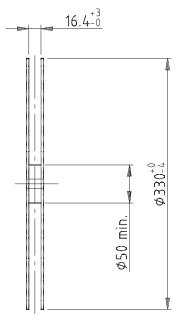
REEL DIMENSIONS FOR PANHEAD, HEIMDALL, AND TVCASTSMD TR in millimeters



Issue: 1; 07.05.02

Note

• The body structure of the reel can vary



Form of the leave open of the wheel is supplier specific.

Dimension acc. to IEC EN 60 286-3

Tape width 16



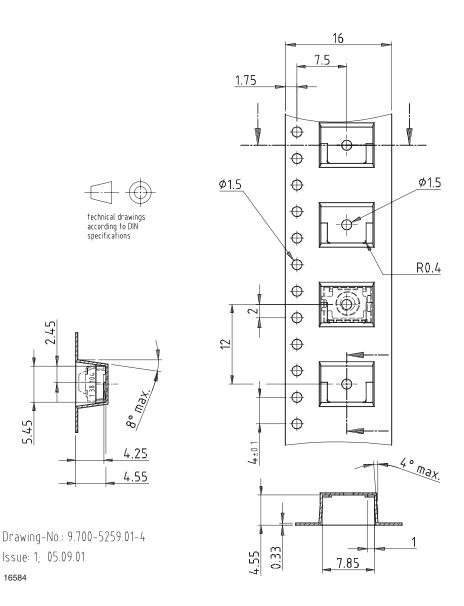
technical drawings according to DIN specifications

Rev. 2.5, 08-Mar-18



TAPING VERSION TSOP..TT (TOP VIEW) DIMENSIONS in millimeters

A. Panhead (TSOP36...TT, TSSP....TT, TSOP6...TT, TSOP16...TT, TSOP96...TT)

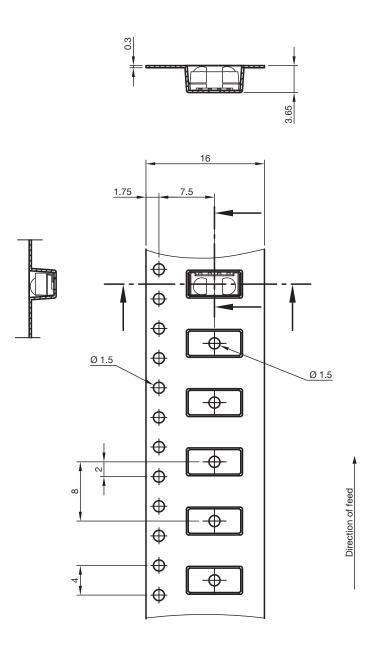


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TAPING VERSION TSOP..TT (TOP VIEW) DIMENSIONS in millimeters

B. Heimdall (TSOP75...TT, TSOP77...TT, TSSP77...TT, TSOP15...TT, TSOP95...TT)





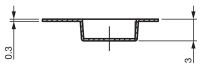
technical drawings according to DIN specifications

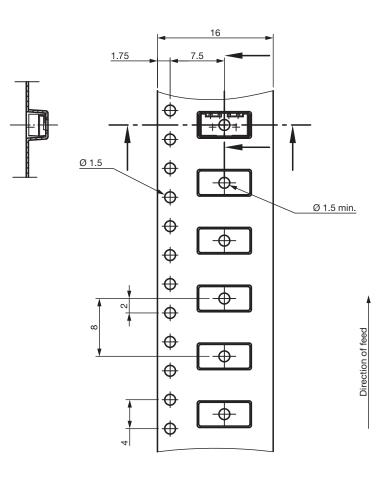
Drawing-No.: 9.700-5338.01-4 Issue: 4; 12.06.13



TAPING VERSION TSOP..TT (TOP VIEW) DIMENSIONS in millimeters

C. Heimdall without lens (TSOP75...WTT, TSOP77...WTT, TSSP77...WTT, TSOP15...WTT, TSOP95...WTT)







technical drawings according to DIN specifications

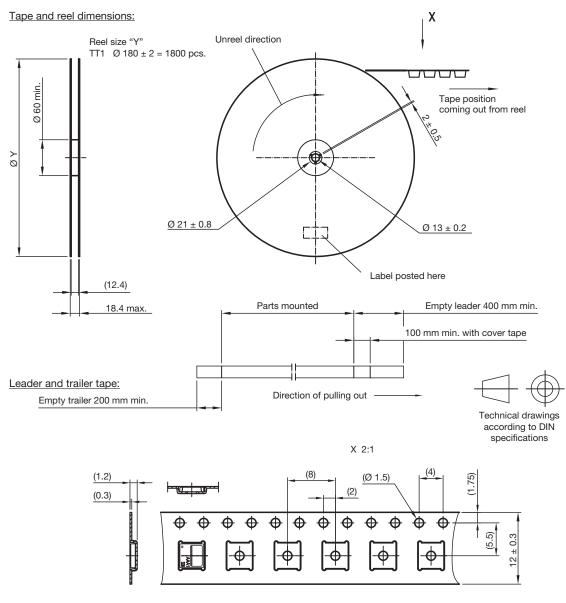
Drawing-No.: 9.700-5341.01-4 Issue: 3; 06.10.15

TAPING VERSION TSOP..TT1 (TOP VIEW) DIMENSIONS in millimeters

D. Belobog (TSOP37...TT1, TSOP57...TT1, TSOP17...TT1, TSOP97...TT1)

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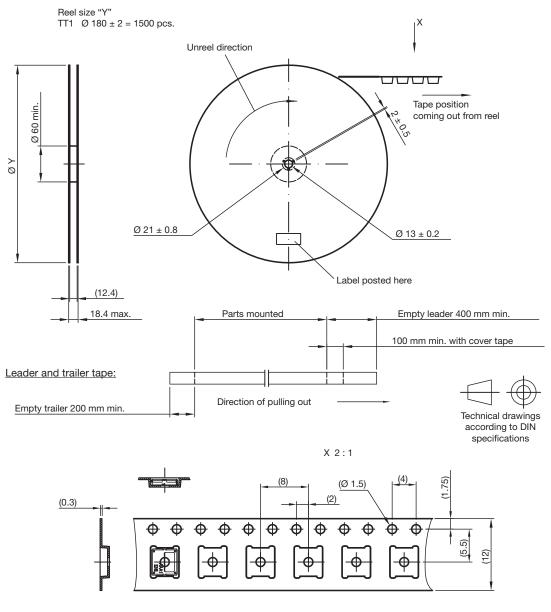
Drawing-No.: 9.700-5347.01-4 Issue: 2; 07.03.18 Not indicated tolerances ± 0.1



TAPING VERSION TSOP..TT1 (TOP VIEW) DIMENSIONS in millimeters

E. Belobog with shield (TSOP37...HTT1, TSOP57...HTT1, TSOP17...HTT1, TSOP97...HTT1)

Tape and reel dimensions:



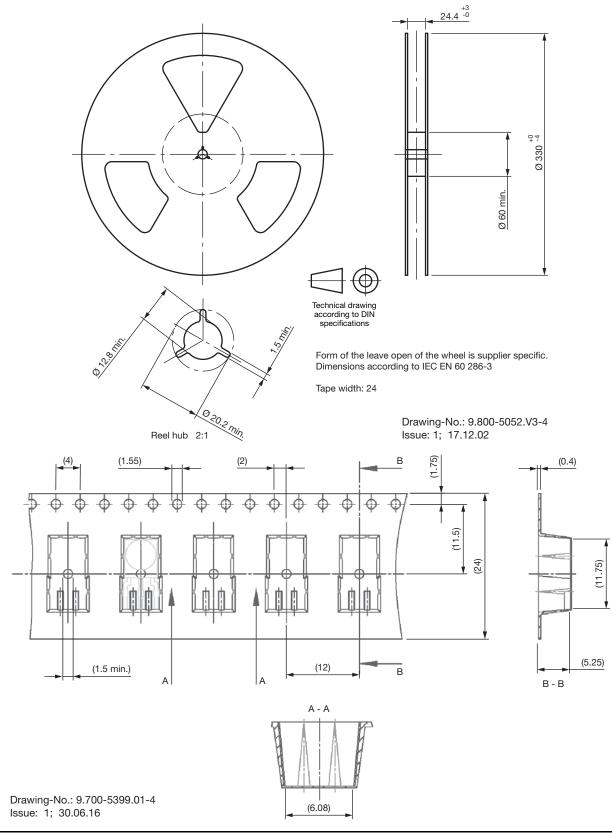
Drawing-No.: 9.700-5380.01-4 Issue: 3; 07.03.18 Not indicated tolerances $\pm \ 0.1$

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TAPING VERSION TSOP...DF1P (SIDE VIEW) DIMENSIONS in millimeters

F. Minimold DF1P (TSOP33...DF1P, TSOP53...DF1P, TSOP13...DF1P, TSOP93...DF1P)



Rev. 2.5, 08-Mar-18

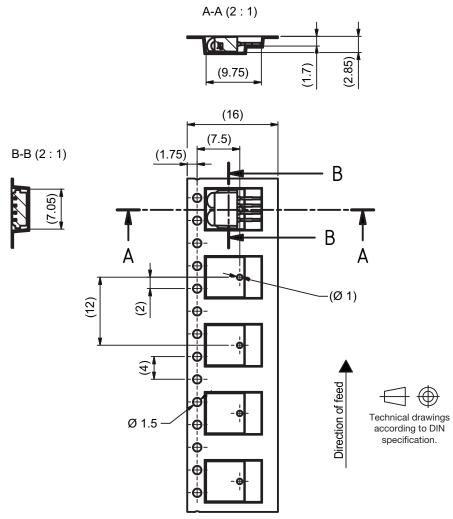
8

Document Number: 80125



TAPING VERSION TSOP..TR (SIDE VIEW) DIMENSIONS in millimeters

G. TVCastSMD TR1 (TSOP59...TR1, TSOP39...TR1, TSOP19...TR1, TSOP99...TR1)

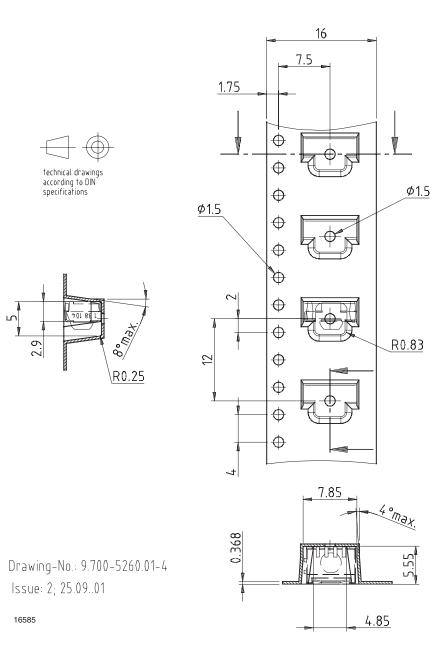


Drawing-No.: GO-100220.10_Z Issue B: 08.02.17

TAPING VERSION TSOP..TR (SIDE VIEW) DIMENSIONS in millimeters

A. Panhead (TSOP36...TR, TSSP6...TR, TSOP6...TR, TSOP16...TR, TSOP96...TR)

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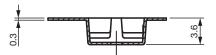


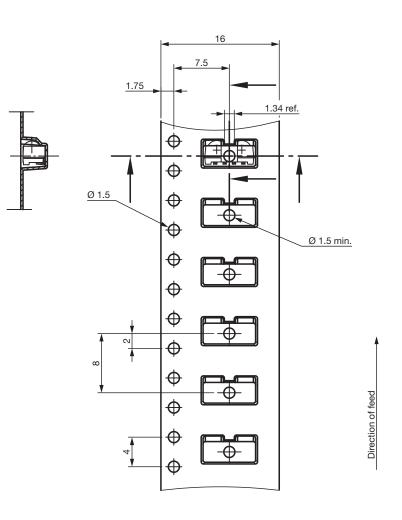
VISHAY



TAPING VERSION TSOP..TR (SIDE VIEW) DIMENSIONS in millimeters

B. Heimdall (TSSP7...., TSOP75...TR, TSOP77...TR, TSSP7....TR, TSOP15...TR, TSOP95...TR)





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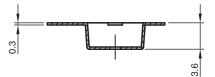
technical drawings according to DIN specifications

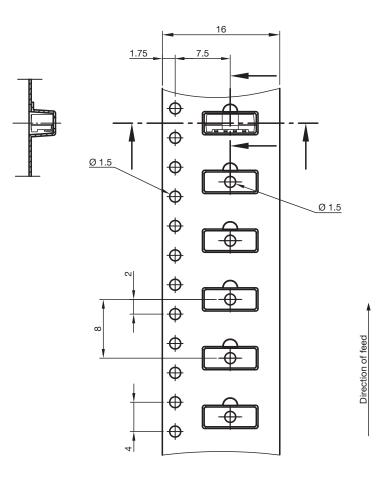
Drawing-No.: 9.700-5337.01-4 Issue: 2; 06.10.15



TAPING VERSION TSOP..TR (SIDE VIEW) DIMENSIONS in millimeters

C. Heimdall without lens (TSOP75...WTR, TSOP77...WTR, TSSP...WTR, TSOP15...WTR, TSOP95...WTR)





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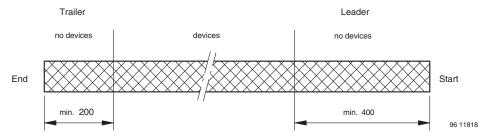
technical drawings according to DIN specifications

Drawing-No.: 9.700-5342.01-4 Issue: 2; 12.06.13





LEADER AND TRAILER DIMENSIONS in millimeters



COVER TAPE REEL STRENGTH

According to DIN EN 60286-3 0.1 N to 1.3 N 300 mm/min. \pm 10 mm/min. 165° to 180° peel angle

LABEL

Standard bar code labels for finished goods

The standard bar code labels are product labels and used for identification of goods. The finished goods are packed in final packing area. The standard packing units are labeled with standard bar code labels before transported as finished goods to warehouses. The labels are on each packing unit and contain Vishay Semiconductor GmbH specific data.

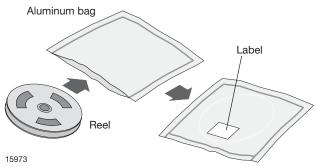
VISHAY SEMICONDUCTOR GmbH STANDARD BAR CODE PRODUCT LABEL (finished goods)			
PLAIN WRITING	ABBREVIATION	LENGTH	
Item-description	-	18	
Item-number	INO	8	
Selection-code	SEL	3	
LOT-/serial-number	BATCH	10	
Data-code	COD	3 (YWW)	
Plant-code	PTC	2	
Quantity	QTY	8	
Accepted by	ACC	-	
Packed by	PCK	-	
Mixed code indicator	MIXED CODE	-	
Origin	XXXXXXX+	Company logo	
LONG BAR CODE TOP	ТҮРЕ	LENGTH	
Item-number	Ν	8	
Plant-code	Ν	2	
Sequence-number	Х	3	
Quantity	Ν	8	
Total length	-	21	
SHORT BAR CODE TOP	ТҮРЕ	LENGTH	
Selection-code	Х	3	
Data-code	Ν	3	
Batch-number	Х	10	
Filter	-	1	
Total length	-	17	

Rev. 2.5, 08-Mar-18



DRY PACKAGING

The reel is packed in an anti-humidity bag to protect the devices from absorbing moisture during transportation and storage.



RECOMMENDED METHOD OF STORAGE

Dry box storage is recommended as soon as the aluminum bag has been opened to prevent moisture absorption. The following conditions should be observed, if dry boxes are not available:

- Storage temperature 10 °C to 30 °C
- Storage humidity \leq 60 % RH max.

After more than 72 h under these conditions moisture content will be too high for reflow soldering.

In case of moisture absorption, the devices will recover to the former condition by drying under the following condition:

192 h at 40 °C + 5 °C / - 0 °C and < 5 % RH (dry air / nitrogen) or

96 h at 60 $^\circ\text{C}$ + 5 $^\circ\text{C}$ and < 5 % RH for all device containers or

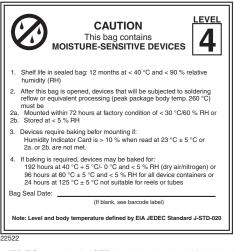
24 h at 125 °C + 5 °C not suitable for reel or tubes.

An EIA JEDEC[®] standard JSTD-020 level 4 label is included on all dry bags.

OUTER PACKAGING

The sealed reel is packed into a pizza box.

Vishay Semiconductors



EIA JEDEC standard JSTD-020 level 4 label is included on all dry bags

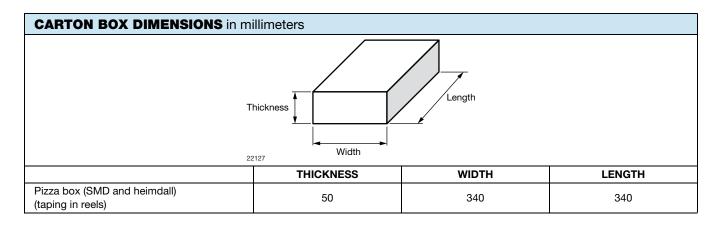
ESD PRECAUTION

Proper storage and handling procedures should be followed to prevent ESD damage to the devices especially when they are removed from the antistatic shielding bag. Electrostatic sensitive devices warning labels are on the packaging.

VISHAY SEMICONDUCTORS STANDARD BAR CODE LABELS

The Vishay Semiconductors standard bar code labels are printed at final packing areas. The labels are on each packing unit and contain Vishay Semiconductors specific data.





Rev. 2.5, 08-Mar-18

Document Number: 80125



Vishay

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