# **SMA4306**

# ON Semiconductor®

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# MMIC Oscillator, 5V, 6.4dBm@400MHz, SCH6

#### **Features**

- · Frequency specification with LC: Added LC sets the operating frequency
- Ultra small package: 1.6×1.6×0.56mm
- · Halogen free compliance

#### **Specifications**

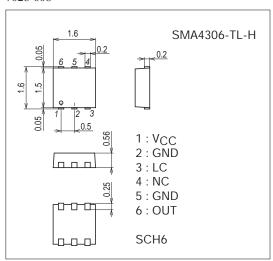
#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Supply Voltage	VCC		6	V
Circuit Current	ICC		50	mA
Power Dissipation	PD		280	mW
Operating Temperature	Topr		-40 to +85	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

#### **Package Dimensions**

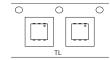
unit : mm (typ) 7028-008



#### **Product & Package Information**

Package : SCH6
 JEITA, JEDEC : SOT-563
 Minimum Packing Quantity : 5,000 pcs./reel

Packing Type : TL Marking





#### Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter			min	typ	max	UIIIL
Supply Voltage	VCC		3	5	5.5	V

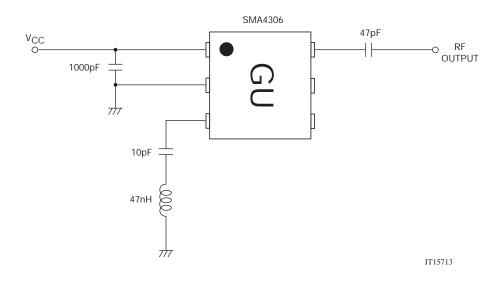
#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	UIIIL
Circuit Current	ICC	Voc EV Dr. EOO food 400MHz	29	34	39	mA
Oscillating Power	Posc	V <sub>CC</sub> =5V, R <sub>L</sub> =50Ω, fosc=400MHz	4.5	6.4	8.5	dBm
Torerance of Oscillating Frequency	fmod	V <sub>CC</sub> =5V, R <sub>L</sub> =50Ω, Specified Test Circuit (L=47nH, C=10pF)	-10		10	%

 $Note \ 1: Oscillation \ frequency \ mainly \ depends \ on \ the \ external \ LC \ (The \ LC \ is \ attached \ additionally \ to \ the \ LC \ terminal \ in \ series).$ 

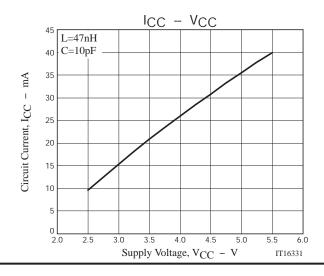
Note 2 : Recommended oscillation frequency 350MHz to 450MHz .

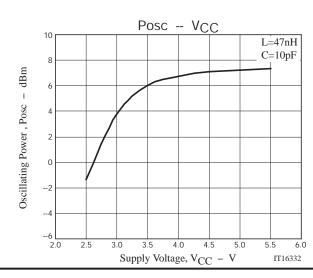
#### **Test Circuit**

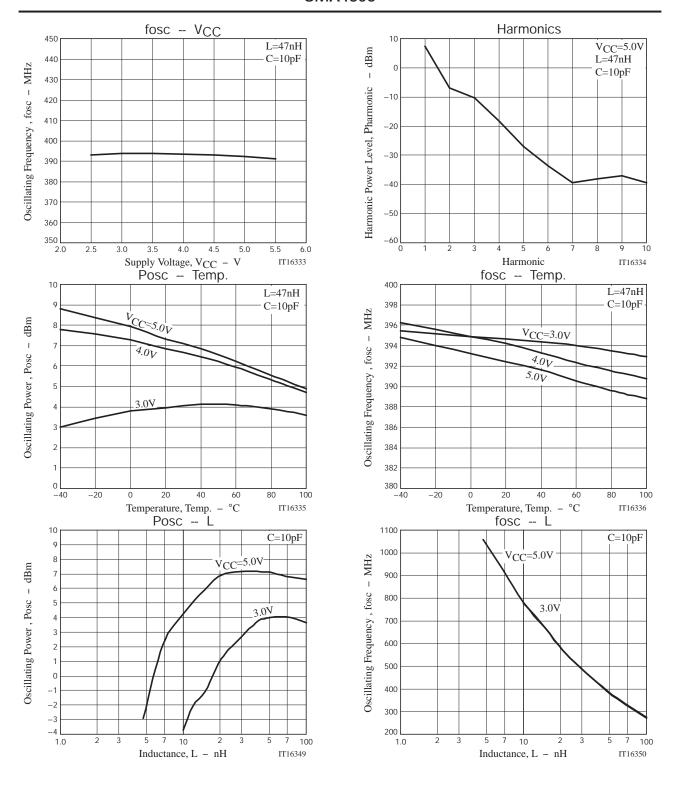


#### **Ordering Information**

Device Package		Shipping	memo		
SMA4306-TL-H	SCH6	5,000pcs./reel	Pb Free and Halogen Free		





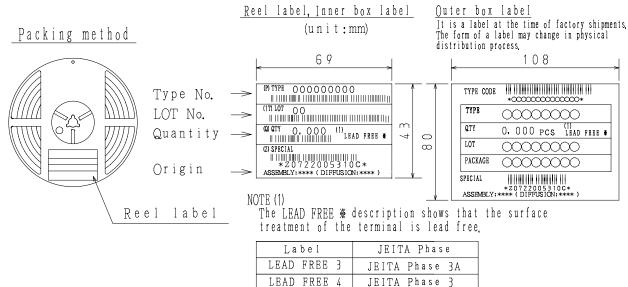


#### **Taping Specification**

#### SMA4306-TL-H

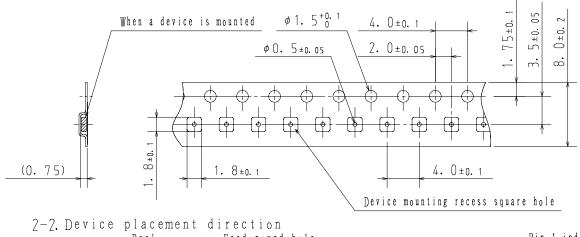
#### 1. Packing Format

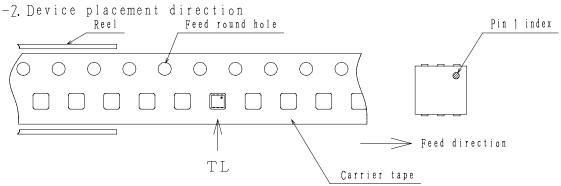
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	format
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
SCH6	SCH6	5,000	25, 000	150,000	5 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210



#### 2. Taping configuration

#### 2-1. Carrier tape size (unit:mm)

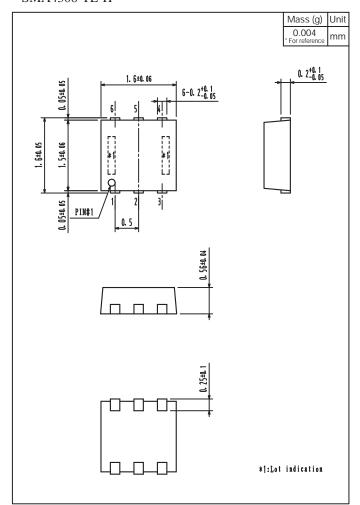




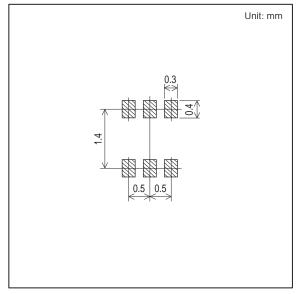
Those with pin 1 index on the feed hole side·····TL

# **Outline Drawing**

## SMA4306-TL-H



#### **Land Pattern Example**



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243N25E100.00000 8208AC-82-18E-25.00000 8008AI-72-XXE-24.545454E 8004AC-13-33E-133.33000X AS-4.9152-16-SMD-TR ASFL1
48.000MHZ-LC-T SIT8920AM-31-33E-25.0000 DSC1028DI2-019.2000 9121AC-2C3-25E100.00000 9102AI-233N33E100.00000X

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