

AnaSem

Crystal Oscillators

VCXO/SMD Clock Oscillator

28.704MHz / ±110ppm / AS28704VCA

特長

周波数可変範囲 : ±110ppm/Vc=1.65V±1.65V
 周波数安定度 : ±30ppm/-20~70 , Vdd=3.3V±5%
 低消費電流 : 6mA / 28MHz / 3.3V
 動作電圧範囲 : 3.3V±5%
 セラミックパッケージ (7×5×1.7mm)
 出力デューティ : 45~55% / 25

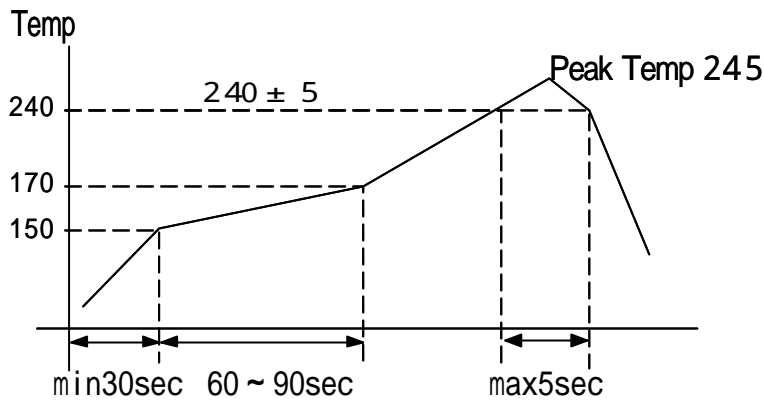
Features

Frequency Deviation Range
 Frequency Stability: ±30ppm
 Low Power Consumption: 6mA / 3.3V
 Operating Voltage: 3.3V±5%
 Ceramic Package (7×5×1.7mm)
 Output Duty: 45~55% / 25

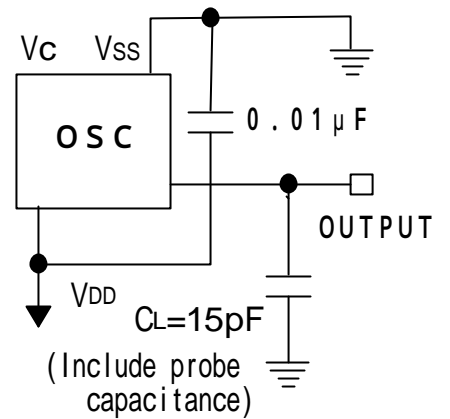
電気的特性 Specifications

項目 ITEM	型名 TYPE	AS28704VCA
Output Frequency 出力周波数		28.704MHz
Frequency Deviation Range 周波数可変範囲		±110ppm min/Vc=1.65V±1.65V
Frequency Stability 周波数安定度		±30ppm min/-20~+70 / 3.3V±5% (Initial Deviation at 25 included, Vc=1.65V, Vdd=3.3V)
Frequency Stability/ Power Supply Voltage 電源電圧周波数変動		±3.0ppm max/3.3V±5% (Reference at 25 , Vc=1.65V)
Frequency Tuning Voltage Range 公称周波数設定電圧偏差		Vt=1.65±0.3V / V _{DD} =3.3V / 25±2
Operating Temperature Range 動作温度範囲		-20~+70
Storage Temperature Range 保存温度範囲		-40~+85
Power Supply Voltage 電源電圧		+3.3V±5%
Power Consumption (No Load) 消費電流 (無負荷)		typ: 6mA / 3.3V, max: 9mA / 3.3V
Output Symmetry 出力波形対称性		45% to 55% (at 1/2V _{DD}) / 3.3V / 25
Rise Time/Fall Time 立ち上がり、立ち下がり時間		4.0nS max (0.3~3.0V) / 4.0nS max (3.0~0.3V)
Output Load 出力負荷		15pF
Input Level 入力レベル		V _{IH} : +3.0V min / V _{IL} : +0.3V max
Output Level 出力レベル		V _{OH} : +3.0V min / V _{OL} : +0.3V max
Assembly Temperature Range 実装温度条件		Peak Temperature 240 ±5 for 5seconds max. Maximum Temperature: 245

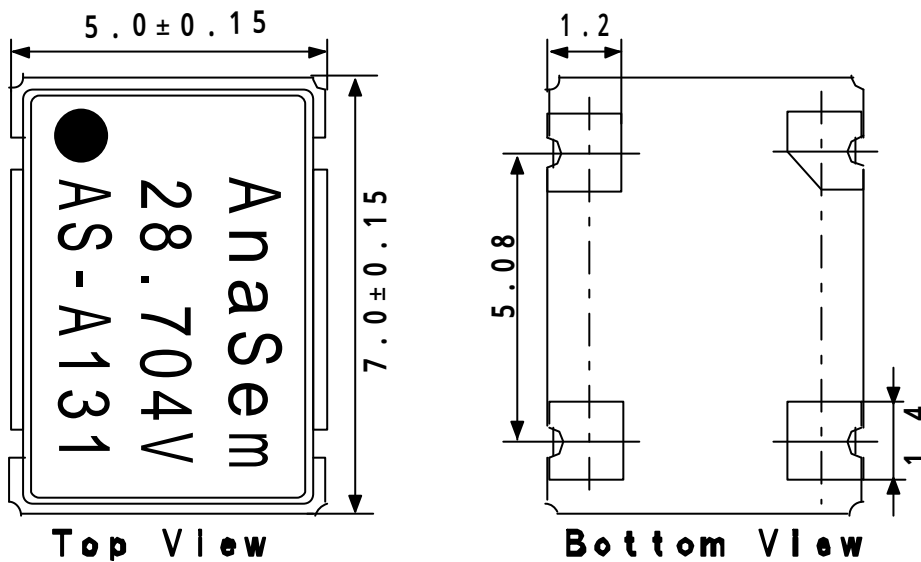
推奨半田付け条件 / Recommended Reflow Soldering Condition



測定回路 Measurement Circuit



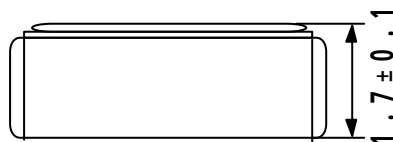
外形寸法 Dimensions



接続端子 Pin Connections

Pin Connections

	V _C
	GND (V _{SS})
	OUTPUT
	+3.3V (V _{DD})



(Unit: mm)

マーキング Marking

AS - A 131

↓ ↓ ↓
a b c

a	Maker / ID: AS=AnaSem. InC
b	Product Version/A: A Version
c	Production Week&Year: 131/31th week/2001

製造元: アナセム株式会社

Maker : Ana Sem Inc

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