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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Panasonic



Crystal Oscillators IC AN8955SSM

Overview

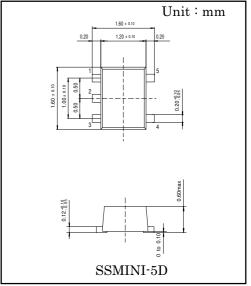
The AN8955SSM is a low-voltage operating IC for crystal oscillator. With a built-in stabilized power supply, oscillator circuit and output buffer, this IC facilitates construction of crystal oscillator circuitry.

■ Features

- Broad power supply voltage range: 2.3 V to 5.5 V
- SS Mini 5-pin package: 1.6mm × 1.6mm (incl. lead)

■ Applications

• Crystal oscillators for mobile communication equipment



■ Block Diagram

OSCB Regulator Xtal oscillator OSCE OUT

■ Pin Descriptions

Pin No.	Function
1	Oscillator input
2	GND
3	Oscillatorfeedback
4	Output
5	Power supply

The products and specifications are subject to change without any notice. Please ask for the latest product standards to guarantee the satisfaction of your product requirements.

■ Absolute Maximum Ratings

Parameters	Symbol	Rating	Item	Note
Storage temperature	$\mathrm{T}_{_{\mathrm{stg}}}$	-55 to +125	°C	1
Operating ambient temperature	$T_{_{ m opr}}$	-30 to +80	°C	1
Supply voltage	V_{cc}	6.5	V	
Supply current	I_{cc}	-	mA	
Power dissipation	$P_{\scriptscriptstyle D}$	54	mW	2

Note1) All items are at T_a = 25°C, except for the operating ambient temperature and storage temperature parameters.

Note2) $T_a = 80$ °C

■ Recommended Operating Range

Supply voltage	Vcc	2.3 V to 5.5 V

■ Electrical Characterristics (Ta=25°C±2°C, Vcc=2.7V unless otherwise specified)

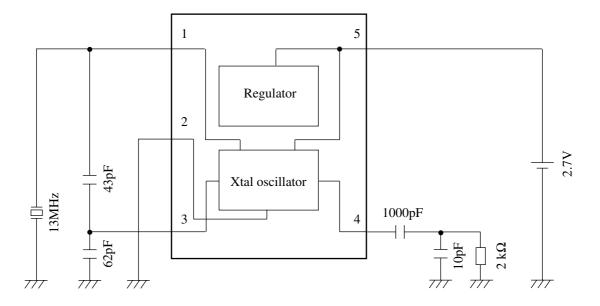
Parameters	Symbol	Conditions	min	typ	max	Unit
Supply current	I_{cc}		0.83	1.07	1.31	mA
OSC B pin voltage	V _{OB}		1.12	1.37	1.62	V
OSC E pin voltage	V _{OE}		460	650	840	mV
OSC C pin current	I_{oc}		1.22	1.57	1.92	mA

■ Electrical Characterristics (Reference Data for Designing)

Parameters	Symbol	Conditions	min	typ	max	Unit
X tal oscillator frequency	FOSC	$ m f_{osc}$ =13 MHz	-50	-	+50	PPM
X tal oscillator amplitude	VPP	$ m f_{osc}$ =13 MHz	1.0	-	-	V _{P-P}
Oscillation circuit negative	RN	$f_{\rm osc}$ =13 MHz	100	-	-	Ω
resistance						
Change in oscillator	FOSCL	$R_L, C_L = \pm 10 \%$	-0.2	-	+0.2	PPM
frequency with load						
Change in oscillator frequency	FOSCV	$V_{\rm cc} = \pm 0.1 \text{ V}$	-0.2	-	+0.2	PPM
with supply voltage						
Output amplitude duty ratio	DUTY	Base on GND	40	•	60	%

^{*} The above characteristics are refence values for designing and not guaranteed values.

■ Application Circuit



■ Package Power Dissipation

