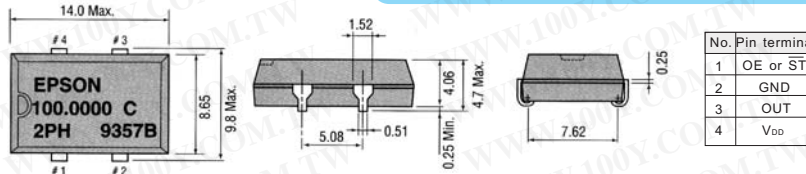


Timing Function IC

EPSON_SG-8002 Programmable Oscillators

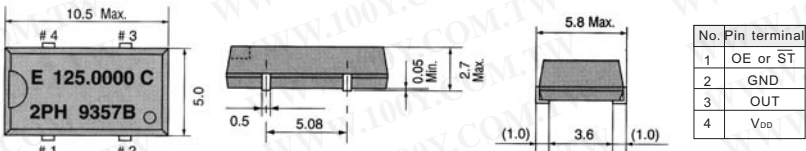
Detailed product specifications are available on: us.100y.com.tw



- Wide frequency output by PLL technology.
- Quick delivery of samples and short lead mass production time.
- Excellent environmental capability.
- Output enable function (OE) and stand-by function (ST) can be used for low current consumption applications.
- Package and pin compatible with SG-615

Item	Symbol	Specifications *2			Remarks
		PT/ST	PH/SH	PC/SC	
Output frequency range	F ₀	1.0000 MHz to 125.0000 Mhz			Refer to page 33. "Frequency range"
Max. supply voltage	V _{DD-GND}	-0.5 V to +7.0 V			
Operating voltage	V _{DD}	5.0 V ±0.5 V	3.3 ±0.3 V		2.7 V to 3.6 V; f ₀ ≤ 66.7 MHz (PC/SC)
Storage temperature	T _{STG}	-55 °C to +125 °C			Stored as bare product after unpacking
Operating temperature	T _{OPR}	-20 °C to +70 °C (-40 °C to +85 °C) -40 °C to +85 °C			Refer to page 33. "Frequency range"
Frequency stability	Δf/f ₀	B: ±50 x 10 ⁻⁶ ; C: ±100 x 10 ⁻⁶ ; M: ±100 x 10 ⁻⁶			B, C: -20 °C to +70 °C, M: -40 °C to +85 °C
Current consumption	I _{OP}	45 mA Max.		28 mA Max.	No load condition, Max. frequency range
Output disable current	I _{OE}	30 mA Max.		16 mA Max.	OE=GND(PT, PH, PC)
Standby current	I _{ST}	50 μA Max.			ST=GND(ST, SH, SC)

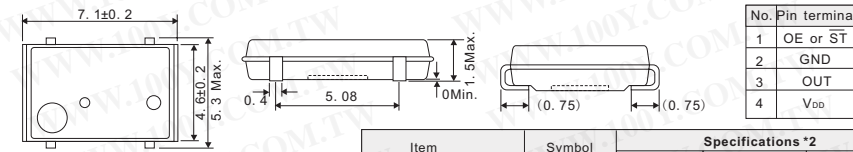
Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Input Current	Rise Fall time	Package	Funtion	Power Supply	Freq. Stability	Operating Temp. °C
29858	SG-8002JA-PCB-1.2M	EPSON	EPSON SG-8002 Programmable Oscillators	1.2	28mAmax.	4nS/4nS max.	SG-614(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70
29859	SG-8002JA-PCB-1.6M	EPSON	EPSON SG-8002 Programmable Oscillators	1.6	28mAmax.	4nS/4nS max.	SG-614(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70
14293	SG-8002JA-PCB-125M	EPSON	EPSON SG-8002 Programmable Oscillators	125	28mAmax.	4nS/4nS max.	SG-614(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70
14320	SG-8002JA-PCB-24M	EPSON	EPSON SG-8002 Programmable Oscillators	24	28mAmax.	4nS/4nS max.	SG-614(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70



- Wide frequency output by PLL technology.
- Quick delivery of samples and short lead mass production time.
- Excellent environmental capability.
- Output enable function (OE) and stand-by function (ST) can be used for low current consumption applications.
- Package and pin compatible with SG-636

Item	Symbol	Specifications *2			Remarks
		PT/ST	PH/SH	PC/SC	
Output frequency range	F ₀	1.0000 MHz to 125.0000 Mhz			Refer to page 33. "Frequency range"
Max. supply voltage	V _{DD-GND}	-0.5 V to +7.0 V			
Operating voltage	V _{DD}	5.0 V ±0.5 V	3.3 ±0.3 V		2.7 V to 3.6 V; f ₀ ≤ 66.7 MHz (PC/SC)
Storage temperature	T _{STG}	-55 °C to +100 °C			Stored as bare product after unpacking
Operating temperature	T _{OPR}	-20 °C to +70 °C			Refer to page 33. "Frequency range"
Frequency stability	Δf/f ₀	B: ±50 x 10 ⁻⁶ ; C: ±100 x 10 ⁻⁶			-20 °C to +70 °C
Current consumption	I _{OP}	45 mA Max.		28 mA Max.	No load condition, Max. frequency range
Output disable current	I _{OE}	30 mA Max.		16 mA Max.	OE=GND(PT, PH, PC)
Standby current	I _{ST}	50 μA Max.			ST=GND(ST, SH, SC)

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Input Current	Rise Fall time	Package	Funtion	Power Supply	Freq. Stability	Operating Temp. °C
14296	SG-8002JC-PCB-125M	EPSON	EPSON SG-8002 Programmable Oscillators	125	28mAmax.	4nS/4nS max.	SG-636(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70
14321	SG-8002JC-PCB-24M	EPSON	EPSON SG-8002 Programmable Oscillators	24	28mAmax.	4nS/4nS max.	SG-636(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70
23514	SG-8002JC-PCB-5M	EPSON	EPSON SG-8002 Programmable Oscillators	5MHz	28mAmax.	4nS/4nS max.	SG-636(SOJ-4P)	Output Enable	5V	50ppm	-20~+70



- Wide frequency output by PLL technology.
- Quick delivery of samples and short lead mass production time.
- Excellent environmental capability.
- Output enable function (OE) and stand-by function (ST) can be used for low current consumption applications.
- Pin compatible with ceramic package crystal oscillator (7x5)

Item	Symbol	Specifications *2			Remarks
		PT/ST	PH/SH	PC/SC	
Output frequency range	F ₀	1.0000 MHz to 125.0000 Mhz			Refer to page 33. "Frequency range"
Max. supply voltage	V _{DD-GND}	-0.5 V to +7.0 V			
Operating voltage	V _{DD}	5.0 V ±0.5 V	3.3 ±0.3 V		2.7 V to 3.6 V; f ₀ ≤ 66.7 MHz (PC/SC)
Storage temperature	T _{STG}	-55 °C to +125 °C			Stored as bare product after unpacking
Operating temperature	T _{OPR}	-20 °C to +70 °C (-40 °C to +85 °C) -40 °C to +85 °C			Refer to page 33. "Frequency range"
Frequency stability	Δf/f ₀	B: ±50 x 10 ⁻⁶ ; C: ±100 x 10 ⁻⁶ ; M: ±100 x 10 ⁻⁶			B, C: -20 °C to +70 °C, M: -40 °C to +85 °C
Current consumption	I _{OP}	45 mA Max.		28 mA Max.	No load condition, Max. frequency range
Output disable current	I _{OE}	30 mA Max.		16 mA Max.	OE=GND(PT, PH, PC)
Standby current	I _{ST}	50 μA Max.			ST=GND(ST, SH, SC)

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Input Current	Rise Fall time	Package	Funtion	Power Supply	Freq. Stability	Operating Temp. °C
14322	SG-8002JF-PCB-24M	EPSON	EPSON SG-8002 Programmable Oscillators	24	28mAmax.	4nS/4nS max.	(SOJ-4P)	Output Enable	2.7~3.6V	50ppm	-20~+70



T E L : Taiwan: 886-3-5753170
 F A X : Taiwan: 886-3-5753172
 E-mail: Taiwan: us_sale@100y.com.tw

Shenzhen: 86-755-83298787
 Shenzhen: 86-755-83640655
 Shenzhen: 100y@163.com

Shanghai: 86-21-54151736
 Shanghai: 86-21-64605107
 Shanghai: 100y-1@163.com