



规格书 SPECIFICATIONS

规格书编号/

ID: _____

物料描述/

Product Description: 5032 27M 20PF 20PPMB

料号/

Part Number: S503227M20PF20PPMB

制作人/

Approved by: 莫平会

审核人/

Checked by: 陈晓群

日期/

Date: 2025/12/26

盖章/

Stamp: _____

客户签署/

Customer signature required

公司名称/

Company: _____

客户料号/

Customer Part Number: _____

承认人/

Approved by: _____

批准人/

Confirmed by: _____

日期/

Date: _____

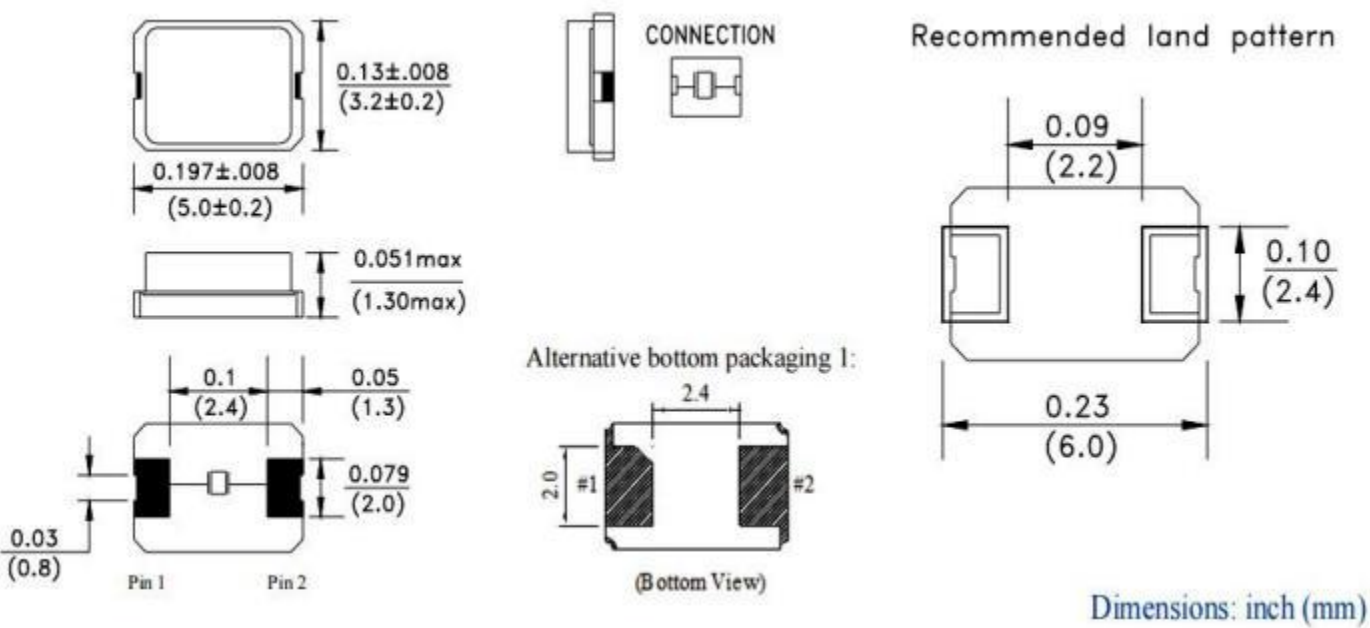
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Stamp: _____

1、电性能参数 Electrical performance parameter

标准频率 (Standard Frequency)	27.000MHz
振动模式 (Mode ofVibration)	Fundamental
激励功率 (Drive Level)	0.01mw
负载电容 (Load Capacitance)	20pf
调整频差 (Frequency Tolerance))	$\pm 20\text{ppm}$ (at $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$)
静电容 (Shunt Capacitance)	$2.40 \pm 0.15\text{PF}$
工作温度范围 (Operating Temperature Range)	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
频率稳定度 (Frequency Stability))	$\pm 20\text{ppm}$ From: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
储藏温度范围 (Storage Temperature Range)	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
年老化率 (Aging First year)	$\pm 5\text{ppm}$
电阻 (Resistance)	20 Ω
RLD2	20 Ω Max
DLDH2	5 Ω Max
DLD2	5 Ω Max
DLD 扫描范围	0.01 μw ~200 μw , 34steps 200 μw ~0.01 μw , 34steps
FDLD	7ppm Max
FDLDH	5 Ω Max
SPDB	-6dB Max

2、产品尺寸 Product dimension



3、可靠性 Reliability

NO	Item	Condition	Standard
3.1	Drop Test	"75cm for 3 times on hardboard"	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.2	AGING 125°C	AGING 125°C one day AGING 125°C two days AGING 125°C four days	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.3	IR Reflow	Pre-heating: 150°C to 200°C , 60~120 secs Heating: 217°C , 60~150 secs	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.4	Mech Shock	1500g, half-sine, 0.5ms, each axis for 3 times.	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.5	Soldering Heat	260 $\pm$ 5°C for 10 $\pm$ 1 sec	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.6	Thermal Shock	-55°C, 125°C; soak time is 10 mins, with total 200 cycles	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$
3.7	Vibration Test	10~2000Hz, 1.52mm, 20g, each axis for 4 hrs	Freq. $\leq \pm 5 \text{ ppm}$, $\Delta \text{ESR} \leq \pm 2 \Omega$ or $\leq \pm 20\%$

4、包装 packaging

Tape and reel (1,000pcs/reel)

