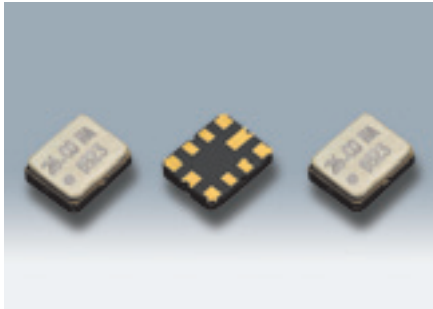


表面実装型(VC-)TCXOモジュール

DSA322MA for Mobile communications



原寸大

■特長

- 3225サイズ、厚さ0.9mm
小型SMD VC-TCXO Module (0.008cc、0.03g)
- 2出力: Clockに利用可能なCMOS出力(出力1)
ENABLE/DISABLE制御が可能なClipped Sinewave出力(出力2)
- 温度センサー出力
- シングルパッケージ構造
- 防湿梱包管理が不要
Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)



■用途

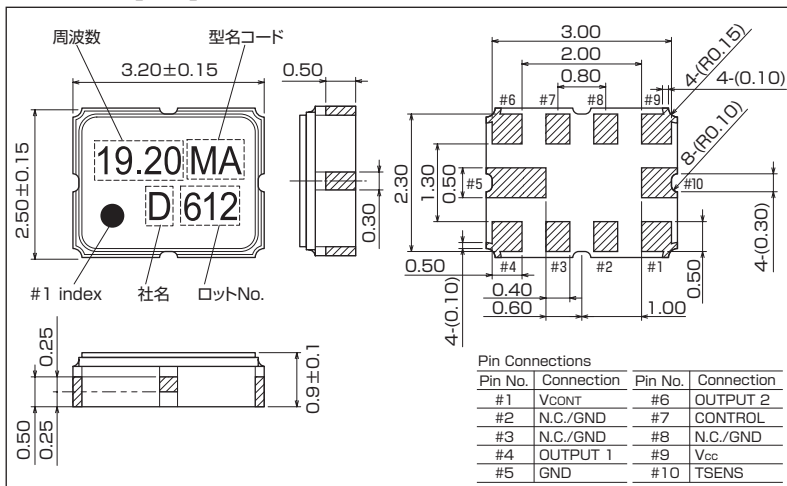
- 携帯電話など (W-CDMA, CDMA2000, GSM, PCN, PCS)

■一般仕様

| 項目 | 型名 | DSA322MA(VC-TCXO Module) | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------------|---|-----------|-----------------|-----------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 出力周波数範囲 | | 9.6 MHz ~ 38.4 MHz | | | | | | | | | | | | | | | |
| 標準周波数 | | 13/ 19.2/26/ 38.4 MHz | | | | | | | | | | | | | | | |
| 電源電圧 | | +2.8 V / +3.0V | | | | | | | | | | | | | | | |
| 消費電流 | | @Std (Output1:CMOS / Output2:Clipped Sine) | | | | | | | | | | | | | | | |
| OUTPUT2: 'DISABLE' | | +2.0 mA max. (F≤15MHz) / +2.5 mA max. (15<F≤26MHz) / +3.0 mA max. (F>26MHz) | | | | | | | | | | | | | | | |
| OUTPUT2: 'ENABLE' | | +2.2 mA max. (F≤15MHz) / +2.8 mA max. (15<F≤26MHz) / +3.3 mA max. (F>26MHz) | | | | | | | | | | | | | | | |
| 出力電圧 | | @Std | | | | | | | | | | | | | | | |
| 出力電圧1 | | Vol: 0.3x(Vcc) Vmax., Voh: 0.7x(Vcc) Vmin. | | | | | | | | | | | | | | | |
| 出力電圧2 | | 0.6 Vp-p min. (Clipped Sinewave / DC-coupled) | | | | | | | | | | | | | | | |
| (CONTROL) | | 'H'=ENABLE / 'L'=DISABLE | | | | | | | | | | | | | | | |
| | | @Option | | | | | | | | | | | | | | | |
| | | 0.8 Vp-p min. (Clipped Sinewave / DC-coupled) | | | | | | | | | | | | | | | |
| | | 'H'=ENABLE / 'L'=DISABLE | | | | | | | | | | | | | | | |
| 出力負荷 | | 10kΩ//10 pF | | | | | | | | | | | | | | | |
| 周波数安定度 | | | | | | | | | | | | | | | | | |
| 常温偏差 | | ±1.5×10 ⁻⁶ max. (After 2 reflows) | | | | | | | | | | | | | | | |
| 温度特性 | | ±2.0×10 ⁻⁶ max. / -30 to +85 deg. C | | | | | | | | | | | | | | | |
| 電源電圧特性 | | ±0.2×10 ⁻⁶ max. (Vcc ±5%) | | | | | | | | | | | | | | | |
| 負荷変動特性 | | ±0.2×10 ⁻⁶ max. (10 kΩ//10 pF ±10%) | | | | | | | | | | | | | | | |
| 経時変化 | | ±1.0×10 ⁻⁶ max./ year | | | | | | | | | | | | | | | |
| 起動時間 | | 2.0 msec. max. | | | | | | | | | | | | | | | |
| 周波数制御 | | | | | | | | | | | | | | | | | |
| 制御感度 | | ±9 to ±15×10 ⁻⁶ / Vcont=+1.5V±1V | | | | | | | | | | | | | | | |
| 周波数制御極性 | | Positive | | | | | | | | | | | | | | | |
| 位相ノイズ | | <table border="1"> <tr> <td>[F≤15MHz]</td> <td>[15MHz<F≤26MHz]</td> <td>[F>26MHz]</td> </tr> <tr> <td>-115 dBc/Hz (Offset 100Hz)</td> <td>-110 dBc/Hz (Offset 100Hz)</td> <td>-105 dBc/Hz (Offset 100Hz)</td> </tr> <tr> <td>-135 dBc/Hz (Offset 1kHz)</td> <td>-130 dBc/Hz (Offset 1kHz)</td> <td>-125 dBc/Hz (Offset 1kHz)</td> </tr> <tr> <td>-140 dBc/Hz (Offset 10kHz)</td> <td>-140 dBc/Hz (Offset 10kHz)</td> <td>-135 dBc/Hz (Offset 10kHz)</td> </tr> <tr> <td>-140 dBc/Hz (Offset 100kHz)</td> <td>-140 dBc/Hz (Offset 100kHz)</td> <td>-140 dBc/Hz (Offset 100kHz)</td> </tr> </table> | [F≤15MHz] | [15MHz<F≤26MHz] | [F>26MHz] | -115 dBc/Hz (Offset 100Hz) | -110 dBc/Hz (Offset 100Hz) | -105 dBc/Hz (Offset 100Hz) | -135 dBc/Hz (Offset 1kHz) | -130 dBc/Hz (Offset 1kHz) | -125 dBc/Hz (Offset 1kHz) | -140 dBc/Hz (Offset 10kHz) | -140 dBc/Hz (Offset 10kHz) | -135 dBc/Hz (Offset 10kHz) | -140 dBc/Hz (Offset 100kHz) | -140 dBc/Hz (Offset 100kHz) | -140 dBc/Hz (Offset 100kHz) |
| [F≤15MHz] | [15MHz<F≤26MHz] | [F>26MHz] | | | | | | | | | | | | | | | |
| -115 dBc/Hz (Offset 100Hz) | -110 dBc/Hz (Offset 100Hz) | -105 dBc/Hz (Offset 100Hz) | | | | | | | | | | | | | | | |
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| -140 dBc/Hz (Offset 10kHz) | -140 dBc/Hz (Offset 10kHz) | -135 dBc/Hz (Offset 10kHz) | | | | | | | | | | | | | | | |
| -140 dBc/Hz (Offset 100kHz) | -140 dBc/Hz (Offset 100kHz) | -140 dBc/Hz (Offset 100kHz) | | | | | | | | | | | | | | | |
| 温度センサー出力 | | 1.474 V typ. (Ta=+30 deg. C) -8.20 mV/deg. C | | | | | | | | | | | | | | | |
| 梱包単位 | | 2000pcs./reel (φ180) | | | | | | | | | | | | | | | |

この他の仕様、または特殊仕様については営業窓口にお問い合わせください。

■外形寸法[mm]



■ランドパターン(参考)

[mm]

