

## Oscillator SMD, programmable

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### Features:

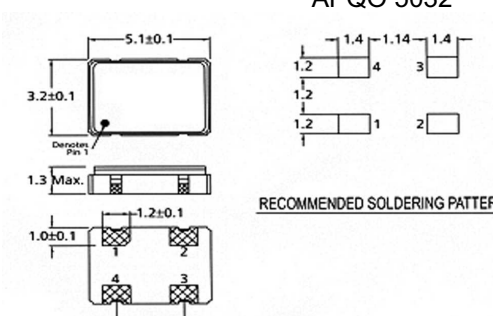
- SMD 5x3.2
- Low cost to performane
- 3.0 ~ 5.5 volt available
- Tolerance and stability to  $\pm 25$ ppm
- Ultra low jitter <11ps



## APQO 5032

| Specifications                                |                              |                |
|-----------------------------------------------|------------------------------|----------------|
|                                               | APQO 5032                    | Remarks        |
| Frequency range                               | 1 ~ 133MHz                   | Please specify |
| Frequency stability                           | $\pm 25$ ppm ~ $\pm 100$ ppm | Please specify |
| Operating temperature                         | -0°C ~ +70°C - -40°C ~ +85°C | Please specify |
| Storage temperature                           | -55°C ~ +125°C               |                |
| Programmable voltage 1 ~ 133 MHz              | 4.0V ~ 5.5V                  |                |
| Programmable voltage 1 ~ 100 MHz              | 3.0V ~ 3.6V                  |                |
| Aging (ppm / Year), Ta = 25C, Vdd = 5 / 3.3 V | $\pm 5$ ppm                  |                |
| Programmable output level                     | CMOS / TTL                   |                |

| Operating conditions                                                                                                                                                                 |     |     |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|
| Description                                                                                                                                                                          | Min | Max | Unit |
| Vdd Supply voltage                                                                                                                                                                   | 3.0 | 5.5 | V    |
| CTTL Max capacitive load on outputs for TTL levels<br>4.5 V ~ 5.5 V Vdd 40 MHz<br>4.5 V ~ 5.5 V Vdd > 40 ~ 133 MHz                                                                   |     | 50  | pF   |
|                                                                                                                                                                                      |     | 25  | pF   |
| CCMOS Max capacitive load on outputs for CMOS levels<br>4.5 V ~ 5.5 V Vdd 66 MHz<br>4.5 V ~ 5.5 V Vdd > 66 ~ 133 MHz<br>3.0 V ~ 3.6 V Vdd 40 MHz<br>3.0 V ~ 3.6 V Vdd > 40 ~ 100 MHz |     | 50  | pF   |
|                                                                                                                                                                                      |     | 25  | pF   |
|                                                                                                                                                                                      |     | 30  | pF   |
|                                                                                                                                                                                      |     | 15  | pF   |

| Drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |            |   |     |   |     |   |        |   |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|------------|---|-----|---|-----|---|--------|---|------|
| <p style="text-align: center;"><b>APQO 5032</b></p>  <p style="text-align: center;">RECOMMENDED SOLDERING PATTERN</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>PIN</th><th>CONNECTION</th></tr> </thead> <tbody> <tr> <td>1</td><td>E/D</td></tr> <tr> <td>2</td><td>GND</td></tr> <tr> <td>3</td><td>OUTPUT</td></tr> <tr> <td>4</td><td>*Vcc</td></tr> </tbody> </table> <p style="text-align: right;">Dimensions in mm</p> |            | PIN | CONNECTION | 1 | E/D | 2 | GND | 3 | OUTPUT | 4 | *Vcc |
| PIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CONNECTION |     |            |   |     |   |     |   |        |   |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | E/D        |     |            |   |     |   |     |   |        |   |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GND        |     |            |   |     |   |     |   |        |   |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OUTPUT     |     |            |   |     |   |     |   |        |   |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | *Vcc       |     |            |   |     |   |     |   |        |   |      |

| Order key    |              |                                              |           |                            |                                                                                       |                                      |
|--------------|--------------|----------------------------------------------|-----------|----------------------------|---------------------------------------------------------------------------------------|--------------------------------------|
| O            | - 10.000000M | - APQO 5032                                  | - 50      | - 5.0                      | - D                                                                                   | - T                                  |
| Part         | Frequency    | Type/Package                                 | Tolerance | Voltage                    | Temperature                                                                           | Opion                                |
| O=Oscillator | M=MHz        | APQO= programmable QO<br>APQO 5032=SMD 5x3,2 | +/-ppm    | 5,0=5,0Volt<br>3,3=3,3Volt | A= 0°C - 70°C<br>B=-10°C - 60°C<br>C=-10°C - 70°C<br>D=-20°C - 70°C<br>E=-40°C - 85°C | T= Tristate<br><br>X=Special options |

Remarks: All specifications subject to change without notice!