



## BPC53 SERIES PROGRAMMABLE CMOS OSCILLATOR - 5.0 x 3.2 x 1.3mm

<b>Frequency Range</b>	10.000MHz to 200.000MHz		
<b>Supply Voltage <math>\pm 5\%</math></b>	1.8V	2.5V	3.3V
	10.000 to 130MHz	10.000 to 160MHz	10.000 to 200MHz
<b>Current Consumption</b>	15mA	25mA	30mA
<b>Temperature Range</b>	-20°C to +70°C or -40°C to +85°C		
<b>Operating Storage</b>	-55°C to +125°C		
<b>Frequency Stability</b>	$\pm 25$ ppm to $\pm 50$ ppm		
<b>Output Load Condition (CMOS)</b>	15pF		
<b>Symmetry (Duty Cycle)</b>	45% to 55%		
<b>Output Rise / Fall Time (tr/ff)</b>	4ns max (1MHz ~ 80MHz) / 3ns (80.001MHz ~ 200MHz)		
<b>High Output Voltage</b>	90% Vdd ~ 2.4V min		
<b>Low Output Voltage</b>	10% Vdd ~ 0.4V max		
<b>Pin 1 Tri-state</b>	No Connection		
<b>Output Enable Voltage</b>	70% Vdd		
<b>Output Disable Voltage</b>	30% Vdd		
<b>Oscillation Start Up Time</b>	5ms max		
<b>Aging</b>	$\pm 3$ ppm max		
<b>Period Jitter (Pk to Pk)</b>	$\pm 80$ ps max		
<b>Note 1</b>	Inclusive of calibration, temp stability, supply change, load change, shock and vibration, and 5 years aging		

## PART NUMBERING GUIDE

Series	Voltage	Temperature Range/Stability	Frequency
BPC53	1.8V = 1	-20°C to +70°C /25 ppm = A	25M000
	2.5V = 2	-40°C to +85°C /25 ppm = B	
	3.3V = 3	-20°C to +70°C /50 ppm = C	
		-40°C to +85°C /50 ppm = D	

For other Tolerance, Stability, and Temperature options please consult factory

**Example P/N: BPC53 – 3 – B –25M000**

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## MECHANICAL DRAWING

