



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

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

