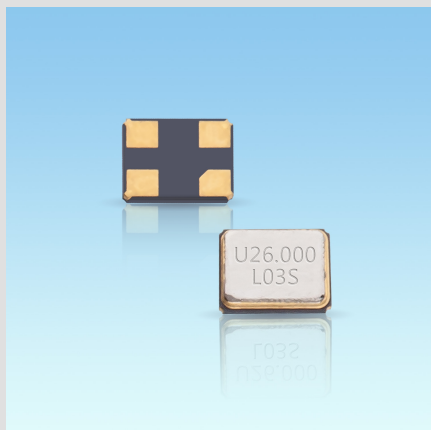
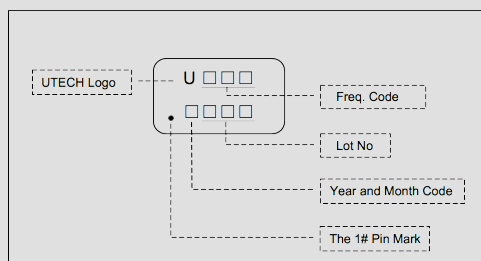


Oscillator SMD7050-M4

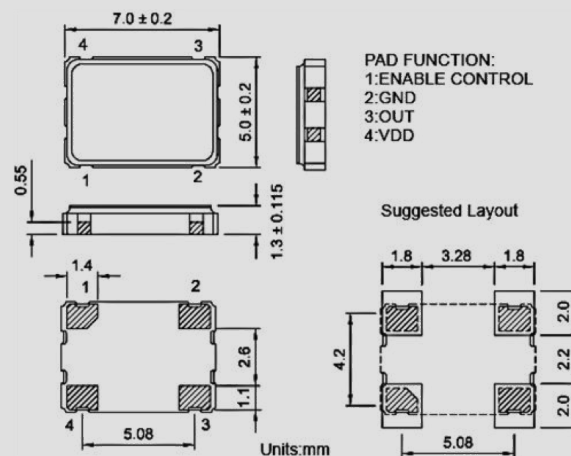


quarzwerk Part Number:	20-0039
Manufacturer:	Utech Electronics Technology Co., Ltd.
Series:	Oscillator SMD7050-M4
Type:	QOS7
Dimension (mm):	7.0 x 5.0 x 1.30
Frequency:	50.000000 MHz
Supply Voltage (VDD):	+1.6 ~ +3.3 VDC
Input Current:	7 mA max. (at 3.3V)
Frequency Tolerance:	±50 ppm
Output Logic / Output Load:	CMOS / 15 pF max.
Operating Temperature:	-40°C to +85°C
Storage Temperature:	-55°C to +125°C
Symmetry:	45% to 55%
Rise & Fall Time:	≤ 4 ns
Start-up Time:	≤ 3 ms
Pin1, Tri-State Function	Pin 1 = L ... High Imped. at Pin 3, No Output
Package Unit:	1000pcs/reel
RoHS :	Pb free - 2011/65/EU (RoHS 2) compliant

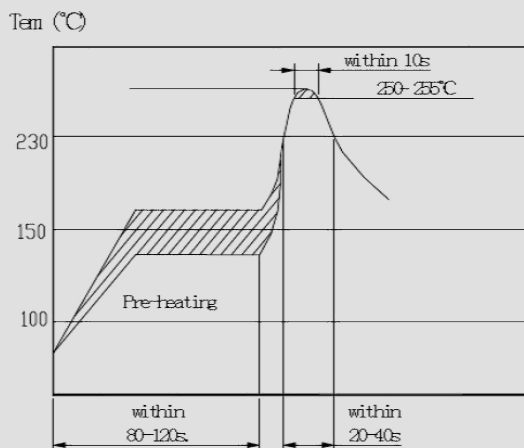
Marking



Dimension



Recommended Reflow Soldering Standard Condition

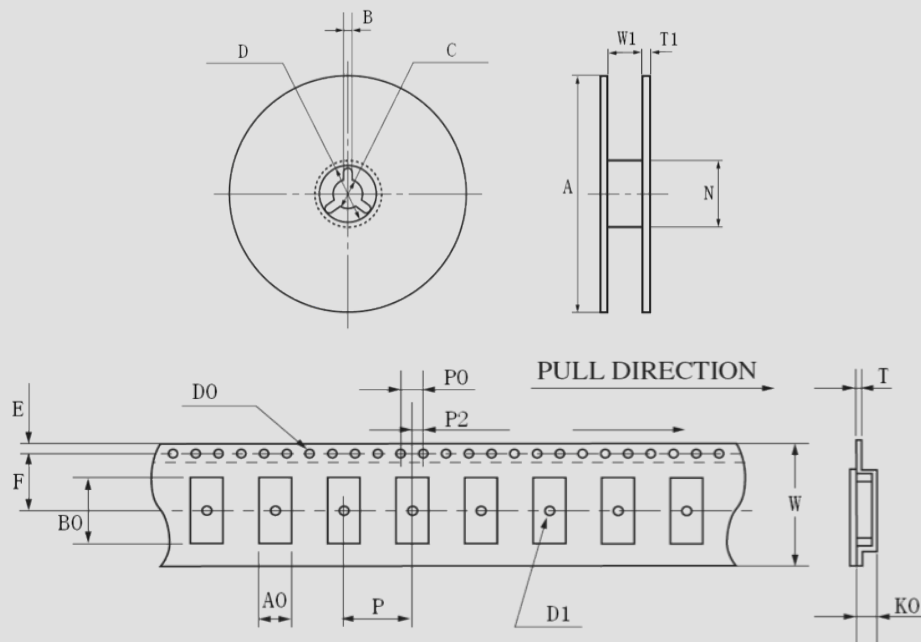


Document History

Date	Changes
09.02.2016	Released
21.02.2016	Fine-tuned Input Current from 15 mA to 7 mA



Package Information



	HC-49SMD	7050	5032	5019	3225	3215	2520	2016
W	24.00±0.30	16.00±0.05	12.00±0.05	12.00±0.05	12.00±0.05	12.00±0.05	12.00±0.05	8.00±0.05
E	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10
F	11.5±0.10	7.5±0.10	5.5±0.10	5.5±0.10	5.5±0.10	5.5±0.10	5.5±0.10	3.5±0.10
T	0.40±0.05	0.35±0.05	0.35±0.05	0.35±0.05	0.30±0.05	0.30±0.05	0.30±0.05	0.20±0.02
P	12.00±0.10	8.00±0.10	8.00±0.10	8.00±0.10	8.00±0.10	8.00±0.10	4.00±0.10	4.00±0.10
P0	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10
P2	2.00±0.10	2.00±0.10	2.00±0.10	2.00±0.10	2.00±0.10	2.00±0.10	2.00±0.10	2.00±0.10
D0	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$	$\varnothing 1.50 \pm 0.10$
D1	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.50 \text{ MIN}$	$\varnothing 1.00 \text{ MIN}$
A0	4.60±0.10	5.40±0.10	3.60±0.10	3.60±0.10	2.85±0.10	2.85±0.10	2.20±0.10	1.90±0.10
K0	4.40±0.10	1.80±0.10	1.50±0.10	1.50±0.10	0.85±0.10	0.85±0.10	0.85±0.10	0.60±0.05
B0	14.20±0.15	7.40±0.10	5.40±0.10	5.40±0.10	3.55±0.10	3.55±0.10	3.55±0.10	2.30±0.10
A	$\varnothing 330 \pm 1.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 2.0$	$\varnothing 178 \pm 1.0$
B	2.30±0.20	2.00±0.50	2.00±0.50	2.00±0.50	2.00±0.50	2.00±0.50	2.00±0.50	2.00±0.50
C	$\varnothing 13.5 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.2 \pm 0.20$	$\varnothing 13.0 \pm 0.20$
D	$\varnothing 21.5 \pm 0.20$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$	$\varnothing 20.0 \pm 0.50$
N	$\varnothing 100.0 \pm 0.5$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.5 \pm 1.0$	$\varnothing 60.0 \pm 1.0$
W1	24.5±0.20	16.5±0.20	12.5±0.20	12.5±0.20	12.5±0.20	12.5±0.20	12.5±0.20	8.4±0.20
T1	2.30±0.20	1.80±0.20	1.80±0.20	1.80±0.20	1.80±0.20	1.80±0.20	1.80±0.20	1.50±0.20