

Resin Sealed SMD Crystal



Model: FQ7050 Series

RoHS Compliant / Pb Free

Rev. 5/5/2014

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Sample®**

FEATURES

- Surface Mount Resin Sealed
- Low Cost
- Ultra Low Profile
- Fundamental
- Tape and Reel (1,000 pcs STD)

OPTIONS

- Tolerances to ± 20 PPM
- Stabilities to ± 20 PPM
- Temp Range to $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

• PART NUMBER

Part Number	Model Number	Frequency Range (MHz)
736A-Frequency-xxxxx	FQ7050A	6.000 ~ 40.000*
736B-Frequency-xxxxx	FQ7050B	6.000 ~ 40.000*

• STANDARD SPECIFICATIONS¹

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	6.000 ~ 40.000 MHz*
Frequency Tolerance @ 25°C	± 30 PPM ¹
Frequency Stability, ref @ 25°C Over Operating Temp Range	± 30 PPM ¹
Temperature Range	
Operating (TOPR)	$0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ ¹
Storage (TSTG)	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Shunt Capacitance (Co)	7 pF
Load Capacitance (CL)	10 pF ~ Series (Customer Specified)
Drive Level	0.5 mW
Aging per year	± 5 PPM

RoHS Compliance Status: Compliant

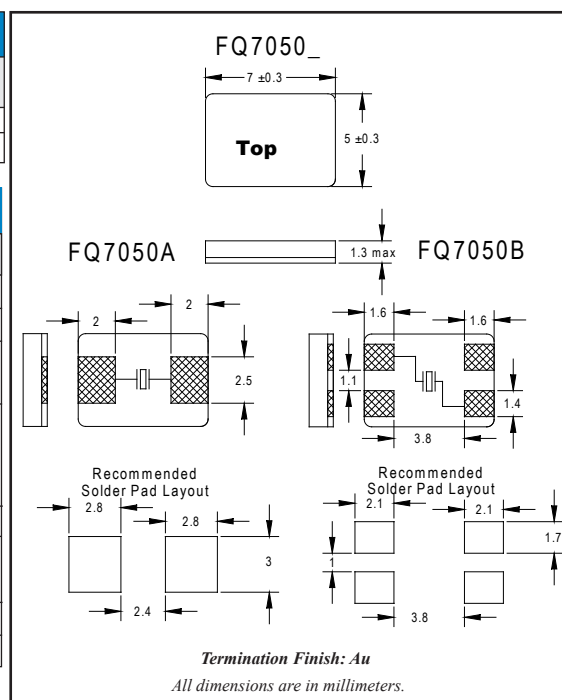
¹ Other tolerances, stabilities & operating temperature ranges available. Consult Fox Customer Service for specific requirements.

NOTE: The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.

* Up to 40.000 MHz is available if this device is replacing an existing 5 x 7mm package. For new designs, above 12.000MHz, we recommend the smaller (FQ6035 & FQ5032) packages. Small quantities above 12MHz are only available in the smaller sizes.

If you have any questions, please call Customer Support at 1-888-GET-2-FOX.

All specifications subject to change without notice.



Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 16.000	Fundamental	80
16.000+ ~ 40.000	Fundamental	50

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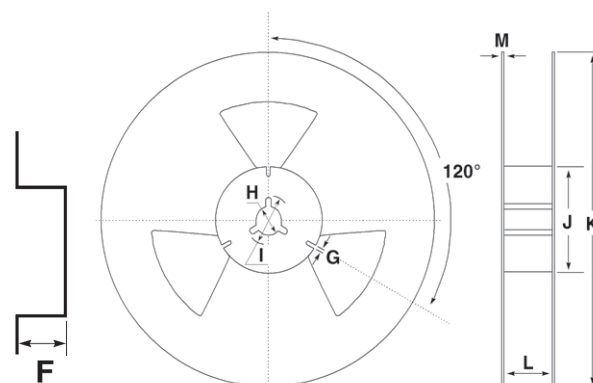
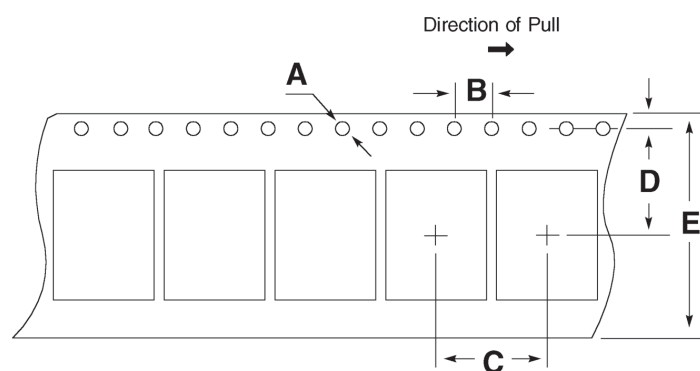
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• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
FQ7050	Ø1.5	4.0	8.0	7.5	16.0	2.0	1,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
FQ7050	2.0	Ø13	Ø21	Ø62.5	Ø178	16.4	2.0



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• FQ7050 Standard Crystals

Part Number	Frequency	Tolerance	Stability	Temp Range	CL
FQ7050B-6.000	6.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ7050B-7.3728	7.372800	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ7050B-8.000	8.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ7050BR-6.000	6.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ7050BR-7.3728	7.372800	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ7050BR-8.000	8.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF