



SMD CRYSTAL RESONATOR			
Model	Frequency Range	Dimension (mm)	
SMD1612	32.0 MHz ~ 52.0 MHz	1.6×1.2×0.35	
SMD2016	24.0 MHz ~ 50.0 MHz	2.0×1.6×0.5	
SMD2520	16.0 MHz ~ 60.0 MHz	2.5×2.0×0.55	
SMD3225	12.0 MHz ~ 54.0 MHz	3.0×2.5×0.6	
SMD4025	12.0 MHz ~ 54.0 MHz	4.0×2.5×0.65	
SMD5032	8.0 MHz ~ 54.0 MHz	5.0×3.2×0.8	
SMD6035	8.0 MHz ~ 50.0 MHz	6.0×3.5×1.0	
SMD7050	6.0 MHz ~ 80.0 MHz	7.0×5.0×1.1	
HC-49/SMD	3.5 MHz ~ 100.0 MHz	11.05×4.65×(2.8~4.2)	
SMD12.5×4.6	3.579 MHz ~ 27.0 MHz	12.5×4.6×3.7	
SMD8×3.8	32.768KHz, 30~76.8KHz	8.0×3.8×2.5	
SMD7×1.5	32.768KHz	7.0×1.5×1.4	MC-146
SMD3.2×1.5	32.768KHz	3.2×1.5×0.8	FC-135
SMD2.0×1.2	32.768KHz	2.0×1.2×0.6	FC-12M
CRYSTAL OSCILLATOR			
Model	Frequency Range	Dimension (mm)	
DIP14	1.0MHz ~ 160MHz	20.7×13.2×5.08	
DIP8		13.2×13.2×5.6	
SMD7050	1 ~ 125MHz, 32.768KHz	7.0×5.0×1.4	
SMD5032	1 ~ 125MHz, 32.768KHz	5.0×3.2×1.2	
SMD3225	1 ~ 80MHz, 32.768KHz	3.0×2.5×1.1	
SMD2520	2.0MHz ~ 50MHz	2.5×2.0×1.0	
SMD5032	10.0 ~ 30MHz	5.0×3.2×1.3	TCXO
SMD3225	13.0 ~ 40MHz	3.0×2.5×1.3	TCXO
CRYSTAL RESONATOR			
Model	Frequency Range	Dimension (mm)	
HC-49U/S	3.5 MHz ~ 100.0 MHz	11.05×4.65×(2.2~3.5)	
HC-49U	1.8 MHz ~ 70.0 MHz	11.05×4.65×13.5	
UM-1	7.0 MHz ~ 180.0 MHz	8.0×3.2×8.0	
UM-5	10.0 MHz ~ 180.0 MHz	8.0×3.2×5.8	
AT310/39/38	3.579 MHz ~ 50.0 MHz	φ 3.0× (8.0~10.0)	
AT26	6.0 MHz ~ 50.0 MHz	φ 2.0×6.0	
DT38	32.768KHz, 30~76.8KHz	φ 3.0×8.0	
DT26	32.768KHz, 30~76.8KHz	φ 2.0×6.0	
DT14	32.768KHz	φ 1.2×4.6	

### CRYSTAL FILTER

Model	Frequency Range	Mode of Oscillation	Poles
49U/49T	10.695MHz	FUND	2 or 4
49U/49T/UM-1	10.700MHz	FUND	2 or 4
UM-1/UM-5	21.4MHz	FUND	2 or 4
UM-1/UM-5	21.7MHz	FUND	2 or 4
UM-1/UM-5	38.850MHz	FUND	2 or 4
UM-1/UM-5	45.000MHz	FUND/3 <sup>rd</sup> Overtone	2 or 4
UM-1/UM-5	45.100MHz	FUND/3 <sup>rd</sup> Overtone	2 or 4
Model	Frequency Range	Dimension (mm)	Poles
S-1	21.4/21.7/45.0MHz	11.0×8.5×11.5	6
S-2	21.4/21.7/45.0MHz	13.4×8.5×11.5	8、10
L-1	10.695/10.7MHz	15.0×12.0×15.0	6
L-2	10.695/10.7MHz	15.0×12.0×15.0	6、8
L-3	10.695/10.7MHz	15.0×12.0×15.0	8、10
L-4	10.695/10.7MHz	12.0×9.5×16.5	4、6
Model	Frequency Range	Dimension(mm)	
Separation Crystal Filter	200KHz ~ 120MHz	45×20×14, 38×19×13, 30×20×13, 25×15×12, Customized	

### SAW RESONATOR&FILTER

Application	Frequency Range	Type
SAW Filter for Cellular Telephone	836.5M&881.5M/ 897.5M&942.5M/ 1950M&2140M/1575.42M etc.	SMD2.5×2.0,SMD2.0×1.6, SMD1.4×1.1
SAW devices for GPS/BDS/Glonass/Galileo	2492M/1561M/1615M/1575M/ 1568M/1602M etc.	SMD3×3,SMD2.5×2.0, SMD1.4×1.1
SAW devices for communication terminal	GSM/DCS/WCDMA/CDMA2000/ TD-SCDMA/TDD-LTE/FDD-LTE etc.	SMD5×5,SMD3.8×3.8,SMD3×3, SMD2.5×2.0,SMD2.0×1.6,SMD1.4×1.1
SAW Filter for communication base station	GSM/DCS/WCDMA/CDMA2000/ TD-SCDMA/TDD-LTE/FDD-LTE etc.	DIP3512,DIP2712,DIP2212,DIP2012, SMD13.3×6.5,SMD5×5, SMD3.8×3.8,SMD3×3,SMD2.5×2.0, SMD2.0×1.6,SMD1.4×1.1
SAW Filter for wireless audio video	110M/110.592M/750M/752.5M/ 768M/869M/914M etc.	F-11,F-16,SMD5×5,SMD3.8×3.8, SMD3×3
SAW Filter for Satellite Receiver	479.6M/480M-1 etc.	F-11,TO-39,SMD5×5,SMD3.8×3.8, SMD3×3
Wireless Meter-Reading devices	433.92M/480M/490M/915M etc.	SMD5×5,SMD3.8×3.8,SMD3×3
SAW Resonator for Wireless Remote Controller	433.92M/315M/390M/418M/ 868.35M/915M etc.	F-11,TO-39,D11,SMD5×5,SMD3.5 SMD3.8×3.8,SMD3×3

