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APPLICATION : GPS | GLONASS | GALILEO | BEIDOU | Wearable Device

▶ SAW Filter

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)	
TA0757B (GPS band)	1575.42	0.9	2	1.4x1.1	
TA0757AB (GPS band)	1575.42	0.9	2	1.4x1.1	*AEC-Q200
TA1425A (GPS band)	1574.42	0.9	2	1.4x1.1	
TA0440A (Car Antenna)	1575.42	2.9	2	3.0x3.0	
TA1343A (GPS+GLONASS+GALILEO+BEIDOU)	1583	1.2	46.79	1.4x1.1	
TA1343B (GPS+GLONASS+GALILEO+BEIDOU)	1583	1.2	46.79	1.4x1.1	*AEC-Q200
TA1661A (GPS+GLONASS+GALILEO+BEIDOU)	1583	2.1	46.79	1.4x1.1	*AEC-Q200
TA1267A	1588.655	1.25	34.47	1.4x1.1	
TA1267E	1588.655	1.25	34.47	1.4x1.1	*AEC-Q200
TA0676A	1592.5	2.6	43	3.0x3.0	
TA1658A (GNSS)	1582.4	1.7	46.61	3.0x3.0	
TA1954A (GPS+GLONASS+COMPASS)	1582.47	1.2	46.84	1.1X0.9	
TA1804A	1582.469	1.1	46.834	1.1X0.9	
TA1442A	2492	1.55	5	3.0X3.0	
TA1901A	1587.5	2	57	2.0x1.6	
TA1785A	1583	1.8	46.79	3.0x3.0	*AEC-Q200
TA1745A	1583	1.8	46.79	2.0x1.6	

▶ Crystal

P/N	Frequency (MHz)	Load Capacitance (PF)	Tolerance (ppm)	Size (mm)	
TZ1006A	32.768KHz	12.5	±20	3.2x1.5	
TZ2528A	32.768KHz	12.5	±20	2.0x1.2	
TZ3120A	32.768KHz	9	±20	1.6x1.0	
TZ3108A	32.768KHz	12.5	±20	1.6x1.0	
TZ1628A	26	19	±7	3.2x2.5	
TZ1628C	26	19	±7	3.2x2.5	*Automotive grade

▶ TCXO/XO

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	
TX0408C	26	1.8	±0.5	2.0x1.6	
TX0360A	16.367667	2.85	±0.5	2.5x2.0	
TX0279A	16.367667	2.85	±0.5	3.2x2.5	
TX0275A	16.368	2.85	±0.5	3.2x2.5	
TX0358A	16.368	1.8	±0.5	2.5x2.0	
TX0455A	26	2.85	±0.5	2.5x2.0	
TX0203A	26	2.775	±0.5	3.2x2.5	
TX0395B	26	2.8	±0.5	2.5x2.0	
TX0486A	26	2.8	±0.5	2.5x2.0	
TX0627A	24.576	3.3	±1.5	3.2x2.5	
TX0590B	16.369	1.7~3.3	±2	2.5x2.0	

► Front End Module

P/N	Frequency (MHz)	Noise (dB)	Gain (dB)	Size (mm ³)
TN0081A (GPS+GLONASS)	1575~1606	1.65	18.5	2.5x2.5x0.535
TN0089A (GPS+GLONASS+Beidou+Galileo)	1575 1597-1606 1559-1591	1.5	15.5	1.5x1.1x0.39

APPLICATION : WIFI | Combo Chip | Bluetooth

WIFI

► SAW Filter

P/N	Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB)	Size (mm)
TA0222A	2442	55	1.9	3.0x3.0
TA0223A	2441.8	83.5	2.1	3.0x3.1
TA1218A	2436	72	3	1.4x1.1
TA1629A	2450	100	1.6	1.4x1.1
TA1468A	2441.8	83.5	1.8	1.4x1.1
TA1869A	2442	79	1.9	1.4x1.1
TA1834A	2441.75	83.5	3	1.4x1.1

► Crystal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ2801A	40	15	±10	2.5x2.0
TZ2323C	48	7	±7	2.0x1.6
TZ2810A	37.4	16	±10	3.2x2.5
TZ0502D	20	18	±10	3.2x2.5
TZ2300A	26	11.5	±7	2.5x2.0
TZ1478A	40	10.5	±10	2.5x2.0
TZ0977B	40	15	±10	2.5x2.0
TZ1421A	40	15	±10	2.5x2.0
TZ0475A	40	15	±10	2.5x2.0
TZ2980A	24	15	±10	2.5x2.0
TZ2901B	37.4	8	±10	2.0x1.6
TZ3023A	24	7	±10	1.6x1.2
TZ3048B	26	9	±50	2.5x2.0
TZ3075A	40	12	±10	3.2x2.5
TZ0909E	38.4	10	±10	2.5x2.0
TZ2205E	38.4	10	±10	2.0x1.6
TZ0234D	26	10	±10	3.2x2.5
TZ2936A	48	9	±15	1.6x1.2
TZ1325D	26	8	±10	2.0x1.6
TZ2102A	26	13.5	±10	3.2x2.5
TZ0661E	26	9	±10	2.5x2.0
TZ2650E	40	12	±5	2.5x2.0
TZ2746A	40	11.5	±7	3.2x2.5
TZ1987A	37.4	16	±10	1.6x1.2
TZ1596E	40	10.5	±10	3.2x2.5

*Automotive grade

► TCXO/XO

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)
TX0439C	24	1.68~3.0	±2	3.2x2.5
TW0517A	37.4	1.8	±50	2.5x2.0
TX0341E	26	2	±2	3.2x2.5 *EMI reduction/Spread Spectrum
TW0523A	24	1.8	±25	2.0x1.6
TW0521A	25	3.3	±50	7.0x5.0
TX0359B	40	2.5	±8	3.2x2.5
TW0511A	80	3.3	±20	2.5x2.0
TW0473C	40	2.5	±10	3.2x2.5 *low phase noise
TW0401D	40	2.5	±10	2.5x2.0 *low phase noise

Combo Chip

► Crystal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ1778B	19.2	7	±10	2.5x2.0
TZ2593C	26	16	±8	2.0x1.6
TZ1987A	37.4	16	±10	1.6x1.2
TZ2206B	37.4	10	±10	2.0x1.6
TZ2099A	37.4	10	±10	2.5x2.0
TZ1188A	38.4	8.3	±10	2.0x1.6
TZ2323A	48	7	±10	2.0x1.6
TZ2322A	48	7	±10	2.5x2.0
TZ1188A	38.4	8.3	±10	2.0x1.6
TZ1462B	38.4	10	±10	3.2x2.5
TZ2300A	26	11.5	±7	2.5x2.0
TZ1387A	26	11.2	±10	3.2x2.5

► TCXO/XO

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)
TW0324C	48	1.8	±10	2.5x2.0
TX0359B	40	2.5	±8	3.2x2.5

Bluetooth

► Crystal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ1187A	26	9	±10	2.0x1.6
TZ0260A	26	12	±10	3.2x2.5
TZ2701A	32	12	±10	2.5x2.0
TZ3021A	16	6	±10	2.0x1.6
TZ1670D	16	8	±10	2.5x2.0
TZ2779C	26	10	±10	2.5x2.0
TZ1022B	26	7	±10	3.2x2.5
TZ1185A	16	7.1	±10	3.2x2.5
TZ1275A	16	9	±20	3.2x2.5
TZ1402A	26	10	±10	3.2x2.5
TZ0661B	26	9	±10	2.5x2.0
TZ1325D	26	8	±10	2.0x1.6
TZ1845A	26	9	±10	1.6x1.2
TZ2486A	16	8	±10	2.0x1.6 *low profile
TZ2099E	37.4	10	±10	2.5x2.0 *Automotive grade

► SAW Filter

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)	
TA0801A	866	2.3	7	3.0x3.0	
TA0659A	868.3	2.9	1.5	3.0x3.0	
TA1457A	869.6	2.4	1	3.0x3.0	
TA0281A	915	2.2	26	3.0x3.0	
TA1294A	915	2.5	26	1.4x1.1	
TA0223A	2441.8	2.1	83.5	3.0x3.0	
TA0222A	2442	1.9	55	3.0x3.0	
TA1404A	869	2.3	2	3.0x3.0	*AEC-Q200
TA1423A	915	1.9	26	1.4x1.1	
TA1102A	915	2	26	2.0x1.6	
TA0437A	169	2	6	5.0x5.0	
TA0581B	2345	2.8	90	3.0x3.0	
TA1900A	868.3	3	1.5	3.0x3.0	
TA1778A	314.45	1.9	1.06	3.0x3.0	*AEC-Q200
TA0944A	433.92	1.6	1.6	3.0x3.0	*AEC-Q200
TA0657A	315	1.5	0.6	3.0x3.0	
TA1766A	925.2	2.5	5.8	1.4x1.1	

► Crystal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	
TZ2516A	11.998618	15	±14	HC49-SMD	
TZ2095A	11.998618	15	±14	HC49-SMD	
TZ2061A	11.998618	15	±14	5.0x3.2	
TZ1917B	12.8	10	±20	3.2x2.5	
TZ2594A	13.56	15	±16	HC49-SMD	
TZ2059A	13.573256	15	±16	5.0x3.2	
TZ0384C	16	20	±18	3.2x2.5	
TZ2234A	16	20	±18	HC49-US	
TZ1430A	30	10	±10	2.5x2.0	
TZ0757B	30	10	±10	3.2x2.5	
TZ1880D	32	10	±10	3.2x2.5	
TZ2155B	32	10	±10	2.0x1.6	
TZ2754A	32.768 KHz	10	±12.5	3.2x1.5	
TZ2845A	32.768 KHz	20	±12.5	2.0x1.2	
TZ3108A	32.768 KHz	20	±12.5	1.6x1.0	
TZ2490A	25.228125	10	±6	2.0x1.6	
TZ1958A	32	10	±10	HC49-US	
TZ2998A	20	7	±20	2.5x2.0	
TZ2997A	37.4	7	±20	2.5x2.0	
TZ3003A	37.4	7	±20	1.6x1.2	
TZ3020A	20	7	±20	2.0x1.6	
TZ2189C	24.305	7	±10	3.2x2.5	
TZ2277B	24.305	7	±10	2.5x2.0	
TZ3072A	25.228125	6	±10	1.6x1.2	
TZ1203B	24	10	±10	3.2x2.5	
TZ3023A	24	7	±10	1.6x1.2	

► TCXO/XO

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)
TX0338E	30	2.85v	±2	3.2x2.5
TX0534C	32	1.8	±2	2.5x2.0
TW0459E	32.768 KHz	15	±20	2.5x2.0
TX0618A	32.768 KHz	1.8/2.5/3.0/3.3	±1.5	3.2x2.5
TX0601A	32.768 KHz	1.8/2.5/3.0/3.3	±1.5	7.0x5.0
TW0357A	32.768 KHz	3.3	±25	3.2x2.5
TW0459B	32.768 KHz	1.8	±25	2.5x2.0
TX0605A	12	3.3	±1.5	3.2x2.5
TX0659A	40	1.8	±0.5	2.0x1.6

► MCF

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (KHz)	Size (mm)
TY0153A	30.72	2.0	±4	7.0x5.0
TY0137A	21.4	3.0	±7.5	7.0x5.0
TY0143A	90	3.0	±10	7.0x5.0

NFC

► Crystal /TCXO

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ0633A	27.12	10	±10	3.2x2.5
TZ1261C	27.12	10	±10	2.5x2.0
TZ1897A	27.12	10	±10	2.0x1.6
TZ2959A	27.12	10	±30	2.0x1.6
TZ2852A	27.12	12	±10	1.6x1.2
TZ2959A	27.12	10	±30	2.0x1.6

*metal cap structure

► SSD-Crystal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ2930B	40	6	±45	2.0x1.6
TZ2370B	30	6	±30	2.0x1.6
TZ1960C	25	8	±30	2.0x1.6
TZ2724D	25	6	±30	2.0x1.6

*metal cap structure

*metal cap structure

*metal cap structure

*metal cap structure

APPLICATION : 3G | LTE | Repeater | Femtocell | Base Station

► SAW Filter

	P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)
Duplexer	TF0104A (Band 1)	1950/2140	1.8	60	2.0x1.6
	TF0105A (Band 2)	1880/1960	2	59	2.0x1.6
	TF0110A (Band 4)	1732.5/2132.5	1.8	45	2.0x1.6
	TF0095A (Band 5)	836.5/881.5	1.8	25	2.0x1.6
	TF0109A (Band 7)*BAW Filter	2535/2655	3.2	70	2.0x1.6
	TF0093A (Band 8)	897.5/942.4	1.7	25	2.0x1.6

► SAW Filter

	P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)
Duplexer	TF0075A (Band12)	707/737	1.9	18	3.8X3.8
	TF0091A (Band13)	897.5/942.4	1.5	10	2.0x1.6
	TF0108A (Band17)	710/740	2	12	2.0x1.6
	TF0100A (Band20)	806/847	2.8	30	2.0x1.6
	TF0112A (Band28)	718/773	1.8	30	2.0x1.6
	TF0120A (Band 1)	1950/2140	1.8	60	1.8x1.4
	TF0121A (Band 2)	1880/1960	2.3	59.04	1.8x1.4
	TF0122A (Band 4)	1732.5/2132.5	1.7	45	1.8x1.4
	TF0123A (Band 5)	836.5/881.5	1.7	25	1.8x1.4
	TF0124A (Band 7)*BAW Filter	2353/2655	2.3	70	1.8x1.4
Single Filter	TF0125A (Band 8)	897.5/942.5	2.1	30.2	1.8x1.4
	TA1818A (Band 1)	1950/2140	1.9	60	1.4x1.1
	TA1817A (Band 2)	1880/1960	3.4	58.5	1.4x1.1
	TA1818A (Band 4)	1740/2140	1.9	60	1.4x1.1
	TA1816A (Band 5&6)	836.5/881.5	1.7	25	1.4x1.1
	TA1726A (Band 8)	897.5/942.5	1.9	30.2	1.4x1.1
	TA1962A (Band38)	2595	1.8	50	1.4x1.1
	TA1122A (Band39)	1900	2	40	1.4x1.1
	TA1963A (Band40)	2350	1.8	100	1.4x1.1
	TA1964A (Band41)	2602	2.6	100	1.4x1.1
	TA1869A (*BAW Filter)	ISM 2.4G	1.9	79	1.4x1.1
	TA1834A	ISM 2.4G	3	83.5	1.4x1.1
	TA1845C (Band 1)	1950/2140	1.9	60	1.1x0.9
	TA1870C (Band 2)	1880/1960	2.8	60	1.1x0.9
	TA1843C (Band3)	1747.5/1842.5	2	75	1.1x0.9
	TA1845C (Band 4)	1732.5/2140	1.9	60	1.1x0.9
	TA1811A (Band 5&6)	836.5/881.5	1.6	25	1.1x0.9
	TA1847C	2535/2655	2.5	70	1.1x0.9
	TA1839C	897.5/942.5	2	35	1.1x0.9
	IF	TB0194A	70	8	5
TB0184A		70	21	3.5	13.3x6.5
TB0203A		140	10.5	10	13.3x6.5
TB0270A		240	7.7	20	7.0x5.0
TB0677A		300	3.8	0.2	5.0x5.0
TB1024A		872.4	18.2	4.5	13.3x6.5

► Crystal/TSX

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)
TZ1689A	26	7.3	±10	3.2x2.5
TZ0495C	26	8	30±10	3.2x2.5
TZ1432A	26	8	±10	2.5x2.0
TZ1387A	26	11.2	±10	3.2x2.5
TZ0928A	26	8.4	±10	2.5x2.0
TM0003A	19.2	7	±10	2.5x2.0
TM0002A	26	7	±10	2.5x2.0
TM0005A	52	16	±10	2.5x2.0
TM0006B	19.2	7	±10	2.0x1.6
TM0009A	26	7	±10	2.0x1.6
TM0010F	38.4	10	±10	2.0x1.6

▶ TCXO/VCTCXO/XO

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	
TX0462 (Stratum III)	10	3.3	±1	7.0x5.0	
TX0472 (Femtocell)	19.2	3.3	±2	5.0x3.2	
TX0371B (UMTS)	26	2.8	±2	2.5x2.0	
TX0315B (UMTS)	26	2.8	±2	3.2x2.5	
TX0305A (Femtocell)	26	3.3	±2	3.2x2.5	
TX0445B (UMTS)	26	2.85	±2	2.5x2.0	
TX0362A	19.2	3.3	±1.5	3.2x2.5	
TW0472A	156.25	2.5	±50	7.0x5.0	
TW0508A	312.5	2.5	±50	7.0x5.0	*LVPECL
TX0617D	26	2.8	±1	2.5x2.0	*LVPECL

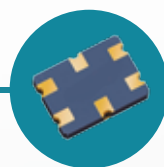
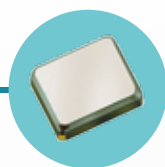
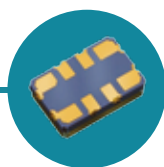
APPLICATION : TPMS

▶ SAW Filter

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)
TA1565A	433.92	2.6	0.3	3.0x3.0
TA1564A	315	2.4	0.36	3.0x3.0

▶ Crystal *operation temperature, -40~125C, AEC-Q200 compliance

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Stability (ppm)	Size (mm)
TZ2382A	18.08	12	30	80	5.0x3.2
TZ1624C	8	10	10	50	5.0x3.2
TZ0659C	26	8	10	60	3.2x2.5
TZ2384B	21.948717	10	10	50	3.2x2.5
TZ2666B	19.6875	12	10	60	3.2x2.5
TZ0825E	32	8	20	50	2.5x2.0
TZ2691D	26	8	10	50	2.0x1.6



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