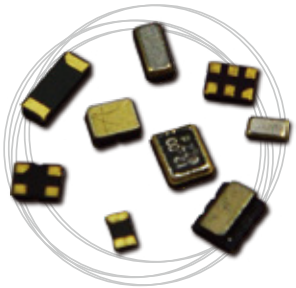
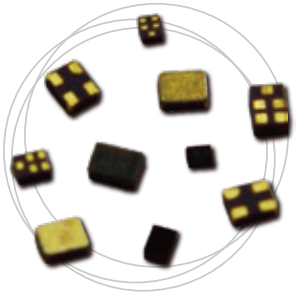


Tai-Saw Technology

Product Lineup

SAW Filter / BAW Filter / Crystal / Oscillator
Antenna / DR Filter / LTCC Filter / Module
LNA / CSR / Magnetic Sensor



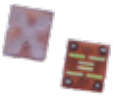


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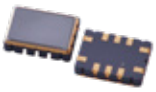
Product Category

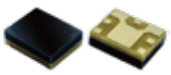
SAW/BAW


WLP


DPX Filter


RF SAW


IF SAW

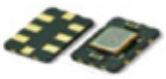

QPX

Xtal/Osc


Xtal


XO/TCXO


VCXO


VCTCXO


OCXO

Antenna


Patch


Linear


Chip


FPC/PCB

DR/LTCC Filter


Sub 6Ghz


5G Tri-Band


WiFi 7

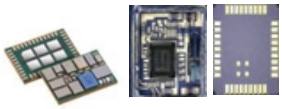

DPX/DIP/Aviation

Module Ant/OEM


NB-IoT

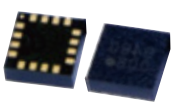

External GPS


Internal GPS


RFFE

LNA/CSR/Magnetic Sensor


CSR


Magnetometer


LNA

GPS SAW

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)	Note
TA2852AA0023(B3+E6)	1278.5	1.6	40	0.9x0.7	
TA2887AA0021(GPS L5)	1176.45	1.8	20.26	0.9x0.7	
TA2888AA0021(GNSS L1)	1582.47	1.7	46.84	0.9x0.7	*High attenuation*
TA2889AA0021(GNSS L1)	1582.47	1.1	46.84	0.9x0.7	*Low Loss*
TA1804A(GPS+GLONASS+COMPASS)	1582.469	1.1	46.834	1.1X0.9	**AEC-Q200*
TA1954A(GPS+GLONASS+COMPASS)	1582.47	1.2	46.84	1.1X0.9	**AEC-Q200*
TA2154A(GPS+GLONASS)	1588.655	1	34.47	1.1X0.9	
TA2250A(GPS+GLONASS+COMPASS)	1585.655	1	40.47	1.1X0.9	
TA2309A (L2)	1223	2.4	52	1.1X0.9	
TA2448A(GPS+GLONASS)	1889	1.5	50	1.1X0.9	
TA2471A (L5)	1176.45	1.8	25	1.1X0.9	
TA2542A(GPS+GLONASS+COMPASS)	1582.47	1.2	46.84	1.1X0.9	
TA2543A(GPS band)	1176.45	1.4	20	1.1X0.9	
TA2600A(GPS+GLONASS)	1221.5	1.8	65	1.1X0.9	
TA2637A (L2+L5)	1207.5	1.9	83	1.1X0.9	
TA2695AA1221(GPS+GLONASS+COMPASS)	1238	3	82	1.1X0.9	
TA2695BA1234(GPS+GLONASS+COMPASS)	1238	3	82	1.1X0.9	**AEC-Q200*
TA2749AA1234(GPS+GLONASS+COMPASS)	1582.47	1	46.84	1.1X0.9	**AEC-Q200*
TA2796AABH20(GPS+GALILEO+COMPASS)	1575.42	1.2	30.69	1.1X0.9	
TA2797AABH20(GPS L2)	1228	2	20	1.1X0.9	
TA2799AAAE24(GPS+GLONASS)	1223	1.8	52	1.1X0.9	
TA2812AA1325(GNSS L5+L2)	1203	2.6	74	1.1X0.9	
TA2825AA1243(GPS+GLONASS+BEIDOU)	1567.75	2	46.84	1.1X0.9	*TC-SAW*
TA2859AACE23(GPS L5+L2)	1202	2.4	72	1.1X0.9	
TA2899AWBZ34(GPS+GLONASS+BEIDOU)	1582.47	1.2	46.84	1.1X0.9	**AEC-Q200*
TA2903AWBZ34(B2b+G2)	1223	2.2	54	1.1X0.9	**AEC-Q200*
TA2922AW1234(GPS+GLONASS+GALILEO+BEIDOU)	1582.47	1.2	46.84	1.1X0.9	**AEC-Q200*
TA2979AW1230(GNSS L5+L2)	1207.5	1.5	83	1.1X0.9	**AEC-Q200, HiQ SAW*
TA3017AWAA34(GNSS L5+B2+G3+E5)	1189	1.1	50	1.1X0.9	**AEC-Q200*
TA3028AA1238(GNSS L5+B2+L2)	1197.4215	1	62.403	1.1X0.9	*Low Loss*
TA0757B(GPS band)	1575.42	0.9	2	1.4x1.1	
TA1267E (GPS+GLONASS)	1588.655	1.25	34.47	1.4x1.1	
TA1343B(GPS+GLONASS+GALILEO+BEIDOU)	1583	1.2	46.79	1.4x1.1	
TA1661A(GPS+GLONASS+GALILEO+BEIDOU)	1583	1.8	46.79	1.4x1.1	
TA2156A (L5)	1176.45	3.6	20	1.4x1.1	
TA2298A (L2)	1225	2.2	60	1.4x1.1	
TA2549A(GPS+GLONASS L2)	1234.4	2.6	45	1.4x1.1	
TA2550A(GPS+GLONASS+COMPASS)	1191.8	2	55	1.4x1.1	
TA2551A(GPS+GLONASS+GALILEO+BEIDOU)	1587.1	2.3	55	1.4x1.1	
TA2552A(GLONASS E6)	1278.5	2	55	1.4x1.1	
TA2662A(GLONASS+COMPASS)	1260	1.9	48	1.4x1.1	
TA2663A(L2+L5)	1202	2.4	73	1.4x1.1	
TA2707AA1322(GPS Band)	1575.42	1.7	2	1.4x1.1	
TA2714AA1334(L2+L5)	1202	2.6	72	1.4x1.1	**AEC-Q200*
TA2724AA1325(GPS+GLONASS+COMPASS)	1238	2.6	82	1.4x1.1	
TA2750AA1320(GPS+GLONASS+COMPASS)	1582.47	0.9	46.84	1.4x1.1	
TA2775AA13AD(GPSL5)	1176.45	1.4	20	1.4x1.1	**AEC-Q200*

GPS SAW

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)	Note
TA2780AA1310(GPS+GLONASS+COMPASS)	1252.5	2.5	77	1.4x1.1	
TA2782AA1334(BEIDOU B1)	1583	1.3	46.79	1.4x1.1	*AEC-Q200
TA2812BA1334(GPS L5+L2)	1203	2.6	74	1.4x1.1	*AEC-Q200
TA2838AA1334(GNSS B2b+L2+G2+B3)	1238	2.6	82	1.4x1.1	*AEC-Q200
TA2839AA1334(GNSS L1)	1583	1.4	46.79	1.4x1.1	*AEC-Q200
TA2851AA1334(GNSS expand L1)	1565.5	3.1	81	1.4x1.1	*AEC-Q200
TA2870AA1334(GNSS L1)	1582.4	1.2	46.61	1.4x1.1	*AEC-Q200
TA2873AA1334(GNSS)	1588.655	1.25	34.47	1.4x1.1	*AEC-Q200
TA2876AA1334(GNSS L2+G2+B3)	1246.5	2.8	63	1.4x1.1	*AEC-Q200
TA2878AA1334(GNSS G2+B3+E6)	1260	1.9	48	1.4x1.1	*AEC-Q200
TA2898AA13CT(GNSS L1)	1580	1.8	50	1.4x1.1	*AEC-Q200
TA2905AW1334(GNSS L5+E5+G3+B2)	1189	1.5	50	1.4x1.1	*AEC-Q200
TA2906AW1334(GNSS L5+L2+G2)	1207.5	2	83	1.4x1.1	*AEC-Q200
TA2907AW13CI(GNSS L2+G2+B3+E6)	1252.5	3	77	1.4x1.1	*AEC-Q200
TA2953AW1334(L2+G2)	1234.4	2.6	45	1.4x1.1	*AEC-Q200
TA2954AW1334(B3+E6)	1278.75	2	55	1.4x1.1	*AEC-Q200
TA2956AW1334(L5+L2)	1191.8	2.4	55	1.4x1.1	*AEC-Q200
TA3039AW(GNSS expand L1)	1567.5	2	85	1.4x1.1	*AEC-Q200
TA0440A(Car Antenna)	1575.42	2.9	2	3.0X3.0	*AEC-Q200
TA0676A	1592.5	2.6	43	3.0X3.0	*AEC-Q200
TA1442A (BEIDOU)	2492	1.55	5	3.0X3.0	*AEC-Q200
TA1658A(GNSS)	1582.4	1.7	46.61	3.0X3.0	*AEC-Q200
TA1785A	1583	1.8	46.79	3.0X3.0	*AEC-Q200
TA1925A (GPS+GLONASS L2)	1234.4	3.3	45	3.0X3.0	*AEC-Q200
TA2493A(GPS L5)	1176.5	1.9	20.44	3.0x3.0	
TA2618A(GPS+GLONASS+COMPASS)	1582.4	1.2	46.61	3.0x3.0	
TA2660A(GLONASS+GALILEO+BEIDOU)	1268.5	3	63	3.0x3.0	
TA2670ATCA(GPS+GLONASS+COMPASS)	1575	2.5	70	3.0x3.0	*AEC-Q200
TA2884AW3114(GNSS expand L1)	1567.5	2.5	85	3.0x3.0	*AEC-Q200

GPS/GNSS Module

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Gain (dB)	Size (mm)	Note
TN0081A (GPS+GLONASS)	1575~1606	18.5	2.5X2.5X0.535	*AEC-Q100
TN0089A (GPS+GLONASS+GALILEO+BEIDOU)	1575	15.5	1.5x1.1x0.39	*AEC-Q100
	1597-1606			
	1559-1591			
TN0201AO15AA(GPS Galileo L5+G3)	1164~1215	16.5	1.5x1.1x0.39	*AEC-Q100
TN0222AA15AE(L5)	1164~1189	16.5	1.5x1.1x0.39	*AEC-Q100
TN0175A(GPS Galileo L2+ G2+ E5b)	1189~1254	16	1.5x1.1x0.39	
TN0175BA1584(GPS Galileo L2+ G2+ E5b)	1189~1254	16	1.5x1.1x0.39	*AEC-Q100
TN0175BA1584(GPS Galileo L2+ G2+ E5b)	1189~1254	16	1.5x1.1x0.39	*AEC-Q100
TN0267AA0084(GNSS L5/E5/B2/G3/L2C)	1164~1226	18.5	1.57x1,23	*AEC-Q100
TN0278AW1584(GNSS L2/G2/B3)	1215~1278	16.5	1.5x1.1x0.39	*AEC-Q100
TN0279AW1584(GNSS L6/E6/B3)	1257~1300	15.5	1.5x1.1x0.39	*AEC-Q100

GNSS Diplexer and Dual Band

GPS GLONASS GALILEO BEIDOU

P/N	Center Freq. (MHz)	Bandwidth (MHz)	Package Size (mm)	Note
TE0133A (GNSS L1/ L5)	1189/ 1582	50/47	3.0x3.0	*AEC-Q200
TE0137A(GNSS L1/ L2)	1223/1582	52/46	3.0x3.0	*AEC-Q200
TE0149A(GNSS L1/ L5)	1176.45/1585.47	20.46/52.84	1.5x1.1	
TE0149DABZ34(GNSS L1/ L5)	1176.45/1585.47	20.46/52.84	1.5x1.1	*AEC-Q200
TE0150A (GNSS L1/ L2)	1222.5/1582.5	53/47	1.5x1.1	
TE0150CABZ34 (GNSS L1/ L2)	1222.5/1582.5	53/47	1.5x1.1	*AEC-Q200
TE0171AA1523(GNSS L1/ L2+L5)	1197.5/1582.5	63/47	1.5x1.1	
TE0171BABZ34(GNSS L1/ L2+L5)	1197.5/1582.5	63/47	1.5x1.1	*AEC-Q200
TE0191AA1533(GNSS L1/ L5)	1176.45/1582.47	20.46/46.84	1.5x1.1	
TE0191AW1533(GNSS L1/ L5)	1176.45/1582.47	20.46/46.84	1.5x1.1	*AEC-Q200
TE0214AW1534(GNSS L1/L5+B2+E5)	1189.5/1582.5	53/47	1.5x1.1	*AEC-Q200
TE0208AA1320(GNSS L1/L5)	1176.5/1582.5	25/47	1.4x1.1	
TE0215AA0020(GNSS L1/L5+L2)	1202/1582.5	72/47	1.5x1.1	

GNSS Notch

GPS GLONASS GALILEO BEIDOU

P/N	Center Freq. (MHz)	Bandwidth (MHz)	Package Size (mm)	Note
TE0123A	1575.42	6	3.0X3.0	GPS (Notch)
TE0125A	1582.47	48	3.0X3.0	GPS + GLONASS + Compass (Notch)
TE0142A	1583	48	3.0X3.0	GPS + GLONASS + Compass (Notch)

GPS Xtal

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ3120A	32.768KHz	9	±20	1.6x1.0	
TZ3108A	32.768KHz	12.5	±20	1.6x1.0	
TZ2065A	32.768KHz	12.5	±20	2.0x1.2	
TZ1510C	32.768KHz	9	±20	3.2x1.5	*Automotive AEC-Q200
TZ1006AC	32.768KHz	12.5	±20	3.2x1.5	
TZ2754C	32.768KHz	12.5	±20	3.2x1.5	*Automotive AEC-Q200
TZ2939B	26	8	±10	1.6x1.2	
TZ2486C	26	8	±10	2.0x1.6	
TZ2058E	26	7	±15	2.0x1.6	
TZ3230A	26	19	±10	2.0x1.6	
TZ2863C	16	12	±10	2.0x1.6	
TZ3585B	32	10	±10	2.0x1.6	
TZ3330EA42BG	26	6.8	±10	2.0x1.6	*Automotive AEC-Q200
TZ2654B	24	20	±10	2.5x2.0	
TZ1628A	26	19	±7	3.2x2.5	
TZ1628C	26	19	±7	3.2x2.5	*Automotive Grade
TZ2786CA62BH	38.4	7	±20	3.2x2.5	
TZ4258AA42DO	76.8	Series	±10	5.0x3.2	3OT
TZ4259AA42DO	153.6	Series	±10	5.0x3.2	3OT

GPS TCXO/XO

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TX0844A	26	1.9	0.5	1.6x1.2	
TX0994CWAA64	26	1.7~3.3	±0.5~±5.0	1.6x1.2	
TX0994BABA63	26	1.7~3.3	±1.0	1.6x1.2	*Wide temp range to +105°C
TX0831A	50	1.8	±2.5	2.0x1.6	
TX0744A	49.58	1.7~3.3	0.5	2.0x1.6	
TX0661AA1052	16.368	2.85	0.5	2.0x1.6	
TX0723BA13BH	10	1.8	0.5	2.0x1.6	AEC-Q200
TX1027DW1074	26	1.68~3.63	0.5	2.0x1.6	AEC-Q200
TX0628C	19.2	3.3	±0.5~±7.5	2.0x1.6	*Wide temp range to +105°C
TX0408C	26	2.85	±0.5	2.0x1.6	
TX0544B	38.4	1.8	±0.5	2.0x1.6	
TX0678B	48	1.8~3.3	±0.5~±7.5	2.0x1.6	*Wide temp range to +105°C
TX0744A	49.58	1.7~3.3	±0.5	2.0x1.6	
TX1054AWAA54	26	1.8~3.3	±1.0	2.0x1.6	AEC-Q200
TX1179FA1270	10	3.3	±1.0	2.0x1.6	
TX0360A	16.367667	2.85	±0.5	2.5x2.0	
TX0358A	16.368	1.8	±0.5	2.5x2.0	
TX0590B	16.369	1.7~3.3	±2	2.5x2.0	
TX0578C	26	1.8	±0.5	2.5x2.0	
TX0395B	26	2.8	±0.5	2.5x2.0	
TX0486A	26	2.8	±0.5	2.5x2.0	
TX0617B	26	2.8	±0.5	2.5x2.0	
TX0687A	40	3.0~3.3	±1.0	2.5x2.0	
TX0309C	16.368	2.8	±0.5	2.5x2.0	
TX0864GC1040	26	3.3	±1.0	2.5x2.0	
TX0275A	16.368	2.85	±0.5	3.2x2.5	
TX0203A	26	2.775	±0.5	3.2x2.5	
TX0840A	24	3.3	±1.0	3.2x2.5	

WiFi SAW Filter

WiFi | Bluetooth | CMMB

P/N	Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB)	Size (mm)	Note
TA2951AA0022	2442	82	2.5	0.9x0.7	TF-SAW
TA2104A	2441.75	83.5	2.2	1.1X0.9	
TA2104B	2441.75	83.5	1.7	1.1X0.9	TC SAW
TA2530A	2442	79	1	1.1x0.9	
TA2530B	2442	79	1	1.1x0.9	*AEC-Q200
TA2545ATCA	2441.75	83.5	1.7	1.1x0.9	TC SAW
TA2603A	2442	82	2.3	1.1x0.9	
TA2621A	2442	79	0.9	1.1x0.9	BAW
TA2621B	2442	79	0.9	1.1x0.9	BAW *AEC-Q200
TA2702AA1221	2442	84	3	1.1x0.9	
TA2795AA1225	2442	79	2	1.1x0.9	
TA2823AA1252	2442	79	2.3	1.1x0.9	TC SAW
TA3027AA1222	2437	69	1.1	1.1x0.9	HiQ SAW
TA1218A	2436	72	3	1.4x1.1	
TA1834A	2441.75	83.5	3	1.4x1.1	
TA1468A	2441.8	83.5	1.6	1.4x1.1	
TA1869A	2442	79	1.9	1.4x1.1	*WiFi/LTE co-existence
TA1869B	2442	79	1.9	1.4x1.1	*WiFi/LTE co-existence, AEC-Q200
TA1629A	2450	100	1.6	1.4x1.1	
TA2269A	2441.75	83.5	2.2	1.4x1.1	
TA2269B	2441.75	83.5	1.5	1.4x1.1	TC SAW
TA2602A	2442	82	2.1	1.4x1.1	
TA2604B	2442	84	2.3	1.4x1.1	
TA2604DA13BC	2442	84	2.3	1.4x1.1	*AEC-Q200
TA2962AW1334	2442	84	2	1.4x1.1	*AEC-Q200
TA2885AW1334	2441.75	83.5	2.2	1.1x0.9	*AEC-Q200
TA0222A	2442	55	1.9	3.0x3.0	*AEC-Q200
TA0223A	2441.8	83.5	2.1	3.0x3.0	*AEC-Q200

WiFi LTCC Filter

WiFi | Bluetooth | Zigbee | Thread

P/N	Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB)	Size (mm)	Note
TL0009A	2450	100	1.7max	2.0X1.25	
TL0010A	2450	100	2.5max	1.6X0.8	
TL0011A	5410	1050	2.0max	2.0X1.25	
TL0017B	2.4/5.5G	100/700	0.6 Max @2400~2500 1.5 Max @5150~5850	1.6x0.8	
TL0019A	5788	125	2.4max	2.5X2.0	*AEC-Q200
TL0025A	2448	72	1.35max	2.0x1.25	
TL0032A	5887.5	75	2.5max	2.5x2.0	
TL0035A	5778	125	1.2max	2.5x2.0	
TL0041AA0094	2450/5425	100/1050	0.9 Max @2400~2500 1.1 Max @4900~5950	1.6x0.8	
TL0043AA2095	2450	100	3.5max	2.0x1.25	
TL0046AA0092	5550	800	1.2max	1.6x0.8	
TL0047AA00BC	2450	100	1.4max	2.0x1.25	*AEC-Q200
TL0042AA0092	2450/5425	100/1050	0.55Max@2400~2500MHz 0.7Max@4900~5950MHz	1.6x0.8	*AEC-Q200

WiFi LTCC Filter

WiFi | Bluetooth | Zigbee | Thread

P/N	Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB)	Size (mm)	Note
TL0054AA0093	6012.5	2225	1.1Max	1.6x0.8	
TL0057AA1692	2450/6140	100/1980	0.7max 1.1max	1.6x0.8	
TL1005AA0090	2450	100	2.5Max	1.6x0.8	*AEC-Q200
TL1006AA0090	5537.5	775	1.5Max @ 5150~5490MHz 1.3Max @ 5490~5925MHz	1.6x0.8	*AEC-Q200
TL1007AA0090	5537.5	775	1.2Max	1.6x0.8	
TL1008AA0090	2450	100	3.3Max	1.0x0.5	

WiFi Dielectric Filter

WiFi | Bluetooth | Zigbee | Thread

P/N	Frequency (MHz)	Band Width (MHz)	Insertion Loss (dB)	Size (mm)	Note
TR0008A	5240	200	2.1 Max	3.25x2.58	
TR0012A	5670	380	2.1 Max	3.25x2.58	
TR0009A	5245	190	2.0 Max	8.05x4.05	
TR0011A	5665	370	2.0 Max	8.05X3.45	
TR0010A	5250	160	2.5Max	8.05x4.05	
TR0013A	5710	445	2.5Max	8.05X3.45	
TR0007B	5235	180	2.5 Max @5150-5320 3.5 Max @5360	8.6X4.05	
TR0014B	5697	360	2.5 Max	8.6X3.45	
TR0014B	5697	360	2.5 Max	8.6X3.45	
TR0019A	5962.5	475	2.6max	6.6x3.15	
TR0022A	5825	200	2.0max	4.46x2.75	
TR0025A	5235	180	2.5 Max	8.7x4.27	
TR0026A	5697	360	2.5 Max	8.6x3.35	
TR0041AA0092	5975	80	2.5 Max	8.7x3.22	
TR0097AA0090	5670	380	2.3max	3.0x2.65	
TR0101AA0090	5240	200	2.3max	3.0x3.0	
TR0131AA0090	5697	360	2.5max	8.6x3.35	
TR0134AA0090	5665	370	2.0max	8.46x3.45	
TR0135AA0090	5697	360	2.5max	8.6x3.6	

WiFi 6E BAW Filter

WiFi | Bluetooth | Zigbee | Thread

P/N	Center Freq. (MHz)	BW (MHz)	Insertion Loss (dB)	Package Size (mm)	Note
TA2580ABAWA	5250	160	1.8	2.5x2.0	5.2G WiFi U-NII 1 to 2A
TA2586ABAWA	5665	345	2.3	2.5x2.0	5.6G WiFi U-NII 2C to 3
TA2589ABAWA	5775	100	2.5	2.5x2.0	5.7G WiFi
TK0009AA2862	5250	160	1.8	2.5x2.0	5.2G WiFi U-NII 1 to 2A
TK0010AA2862	5665	345	2.3	2.5x2.0	5.6G WiFi U-NII 2C to 3
TK0037AA0062	5250	160	1.3	1.8x1.4	5.2G WiFi U-NII 1 to 2A, Small PKG
TK0038AA0062	5665	345	1.8	1.8x1.4	5.6G WiFi U-NII 2C to 3, Small PKG
TK0016AA0060	5502.5	665	1.7	1.8x1.6	5.5 GHz WiFi U-NII 1 to 3
TK0040AA1362	5502.5	665	1.8	1.4x1.1	5.5 GHz WiFi U-NII 1 to 3, Small PKG
TK0018AA1360	5532.5	725	2.2	1.4x1.1	5.5 GHz WiFi U-NII 1 to 4
TK0029AA0060	6535	1180	1.7	1.8x1.6	WiFi 6E & 7 U-NII 5 to 8
TK0039AA0062	6535	1180	2.5	1.8x1.6	WiFi 6E & 7 U-NII 5 to 8

WiFi Xtal

WiFi

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ4140AAAA92	59.97	8	±7	1.0x0.8	
TZ3465A	48	9.9	±4	1.2x1.0	
TZ3525COAI82	32	6	±6	1.2x1.0	
TZ3620A	76.8	9.16	±4	1.2x1.0	
TZ3949AAAO82	76.8	10	±10	1.2x1.0	
TZ3953AAAF82	78.125	8	±10	1.2x1.0	
TZ3954AAAF82	80	8	±10	1.2x1.0	
TZ3788AA2282	40	6	±5	1.2x1.0	
TZ3770AAAI82	76.8	9.9	±12	1.2x1.0	
TZ2084EA42BC	40	8	±10	1.6x1.2	
TZ3918BAAA62	80	8	±7	1.6x1.2	
TZ2886D	40	12	±5	1.6x1.2	
TZ3127B	26	8	±7	1.6x1.2	
TZ1845D	26	9	±10	1.6x1.2	
TZ3484B	32	6	±10	1.6x1.2	
TZ3023A	24	7	±10	1.6x1.2	
TZ3126A	26	7	±5	1.6x1.2	
TZ3133A	27.12	10	±10	1.6x1.2	
TZ1987A	37.4	16	±10	1.6x1.2	
TZ2936A	48	9	±15	1.6x1.2	
TZ2613DABA62	48	8	±10	1.6x1.2	
TZ4110AA42BH	76.8	10	±10	1.6x1.2	
TZ3985BAAF60	48	6	±10	1.6x1.2	*Wide temp range to +125°C
TZ3088AAAI42	96	9.9	±12	2.0x1.6	
TZ1325D	26	8	±10	2.0x1.6	
TZ2947A	26	10.5	±7	2.0x1.6	
TZ2901B	37.4	8	±10	2.0x1.6	
TZ2205E	38.4	10	±10	2.0x1.6	*Wide temp range to +105°C
TZ2323C	48	7	±7	2.0x1.6	
TZ3071DAAA42	80	16	±7	2.0x1.6	*Wide temp range to +105°C

WiFi Xtal

WiFi

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ3769AAAI42	76.8	8	±12	2.0x1.6	
TZ3804DACH43	40	15	±10	2.0x1.6	*Wide temp range to +105°C
TZ3877CAAA42	40	7	±7	2.0x1.6	
TZ4104BAAK42	40	9	±10	2.0x1.6	*Wide temp range to +105°C
TZ4104CAAK42	40	9	±10	2.0x1.6	*Wide temp range to +105°C
TZ4149BA4342	31.25	12	±10	2.0x1.6	*Wide temp range to +105°C
TZ2980A	24	15	±10	2.5x2.0	
TZ2300A	26	11.5	±7	2.5x2.0	
TZ3048B	26	9	±50	2.5x2.0	
TZ0661E	26	9	±10	2.5x2.0	
TZ0909E	38.4	10	±10	2.5x2.0	*Wide temp range to +105°C
TZ2801A	40	15	±10	2.5x2.0	
TZ1478A	40	10.5	±10	2.5x2.0	
TZ0977B	40	15	±10	2.5x2.0	
TZ2650E	40	12	±5	2.5x2.0	
TZ2968C	40	11.5	±7	2.5x2.0	*Wide temp range to +105°C
TZ3919BA4232	12	10	±10	2.5x2.0	*Wide temp range to +100°C
TZ4145AAAA32	40	7	±7	2.5x2.0	
TZ0502D	20	18	±10	3.2x2.5	
TZ2102A	26	13.5	±10	3.2x2.5	
TZ2810A	37.4	16	±10	3.2x2.5	
TZ1421A	40	15	±10	3.2x2.5	
TZ0475B	40	15	±10	3.2x2.5	
TZ2855A	40	10.5	±7	3.2x2.5	
TZ3075A	40	12	±10	3.2x2.5	
TZ2746A	40	11.5	±7	3.2x2.5	
TZ1596E	40	10.5	±10	3.2x2.5	*Automotive Grade
TZ2145C	52	12	±5	3.2x2.5	
TZ0749EA4112	25	7	±10	3.2x2.5	
TZ1955FA4112	50	17	±10	3.2x2.5	
TZ2810CA4112	37.4	16	±10	3.2x2.5	

WiFi TCXO/XO

WiFi

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Note
TX1124AAAI63	76.8	1.8(1.7~3.6)	±1	1.6x1.2	
TX0691EAAC52	37.4	3.3	±1	2.0x1.6	
TX0691CA13AD	37.4	3.0~3.6	±2.5	2.0x1.6	
TX0884ACAI52	48	1.68~3.6	±2	2.0x1.6	
TX0857EAAO52	26	1.8	±0.5	2.0x1.6	
TX0756A	60	3.3	±5	2.0x1.6	
TW0603A	48	3.3	±50	2.0x1.6	
TW0523A	24	1.8	±25	2.0x1.6	
TX0546C	26	2.8	±2	2.0x1.6	
TX0474B	24	2.66~3.46	±1.5	2.0x1.6	
TW0547A	12.288	1.8	±50	2.0x1.6	
TX1027CF1052	26	3.3	±1	2.0x1.6	4pads
TX1035BA1372	39	1.7~3.3	±1	2.0x1.6	4pads
TX1060CABV72	40	1.8~3.3	±1	2.0x1.6	4pads
TX1076AF1052	52	3.3	±1	2.0x1.6	4pads
TX1082AAAO72	48	1.8~3.3	±1	2.0x1.6	4pads
TX1082BA1072	48	1.8	±0.5	2.0x1.6	4pads
TX1101CA1072	26	1.75~3.6	±1	2.0x1.6	4pads
TX1108AA1372	50	1.8	±1	2.0x1.6	4pads
TX1112AA1272	19.2	1.8	±0.8	2.0x1.6	4pads
TX1113AA1272	38.4	1.8	±0.8	2.0x1.6	4pads
TX1118AA3072	26	1.2	±1	2.0x1.6	4pads *low Voltage
TX1139AABV72	26	1.8~3.3	±1	2.0x1.6	4pads
TX1152AAAO72	48.15	3.3	±1	2.0x1.6	4pads
TX1024BA1045	26	1.8~2.8	±1	2.5x2.0	
TX0946AA2342	80	1.8~3.3	±1	2.5x2.0	
TW0296D	26	1.8	±10	2.5x2.0	*Low phase noise
TX0617D	26	2.3	±0.5	2.5x2.0	
TA0517A	37.4	1.8	±50	2.5x2.0	
TW0511A	80	3.3	±20	2.5x2.0	
TX0720E	26	2.8	±2	2.5x2.0	
TX0671E	26	2.8	±0.5	2.5x2.0	
TW0374C	27	3.3	±30	2.5x2.0	
TX0766CA1342	40	1.8	±1	2.5x2.0	
TX0956CA11AV	52	1.8	±1	2.5x2.0	
TX0971BABV42	50	3.3	±1	2.5x2.0	
TX1024CA1242	26	1.8	±1	2.5x2.0	
TX1157AABA42	24	1.8~3.3	±1	2.5x2.0	
TX0439C	24	1.68~3.0	±2	3.2x2.5	
TX0341E	26	2	±2	3.2x2.5	
TX0359B	40	2.5	±8	3.2x2.5	*CMOS
TW0473C	40	2.5	±10	3.2x2.5	*Low phase noise
TX0547BA1332	27	2.8~3.3(3.0)	±1	3.2x2.5	
TX1068AA1232	26	2.8	±1	3.2x2.5	
TX1151AA1132	32	3.3	±1	3.2x2.5	
TW0521A	25	3.3	±50	7.0x5.0	*EMI reduction/Spread Spectrum
TW0775AAAE50	40	1.2	±50	2.0x1.6	4pads *low Voltage
TW0776AAAE40	40	1.2	±50	2.5x2.0	4pads *low Voltage

Combo chip Xtal

WiFi / BT Combo

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ2813B	32	8	±10	1.6x1.2	
TZ1987A	37.4	16	±10	1.6x1.2	
TZ3384D	37.4	16	±7	1.6x1.2	
TZ2721CA4362	37.4	12	±10	1.6x1.2	
TZ3384EA4364	37.4	16	±10	1.6x1.2	
TZ2760BA4265	48	7	±10	1.6x1.2	
TZ2502CA4265	38.4	10	±10	1.6x1.2	
TZ2325CWCO64	38.4	8	±10	1.6x1.2	*Wide temp range to +105°C / AEC-Q200
TZ2502BW3464	38.4	10	±7	1.6x1.2	*Wide temp range to +125°C / AEC-Q200
TZ4148CA4262	37.4	16	±10	1.6x1.2	
TZ4148DA4362	37.4	16	±8	1.6x1.2	*Wide temp range to +105°C
TZ2593C	26	16	±8	2.0x1.6	
TZ2206B	37.4	10	±10	2.0x1.6	
TZ1188A	38.4	8.3	±10	2.0x1.6	
TZ2323A	48	7	±10	2.0x1.6	
TZ3139A	48	10	±10	2.0x1.6	
TZ1988B	37.4	16	±5	2.0x1.6	
TZ2901CW4244	37.4	8	±7	2.0x1.6	AEC-Q200
TZ1988DA4142	37.4	16	±10	2.0x1.6	
TZ3261B	24	8	±10	2.0x1.6	
TZ1778B	19.2	7	±10	2.5x2.0	
TZ2300C	26	11.5	±10	2.5x2.0	
TZ2099A	37.4	10	±10	2.5x2.0	
TZ2322A	48	7	±10	2.5x2.0	
TZ1387A	26	11.2	±10	3.2x2.5	
TZ1462E	38.4	10	±10	3.2x2.5	
TZ3710A	80	11	±7	3.2x2.5	

Combo chip TCXO/XO

WiFi / BT Combo

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Note
TX0974AA14AD	37.4	3.3	±1	2.0x1.6	
TX0691EAAC52	37.4	3.3	±1	2.0x1.6	
TX0659C	37.4	1.8~3.6	±2	2.0x1.6	"*Automotive AEC-Q200 *Wide temp range to +105°C"
TX0691A	37.4	3.3	±0.5~±7.5	2.0x1.6	"*Automotive AEC-Q200 *Wide temp range to +105°C"
TX0678E	48	3.0~3.6	±2.5	2.0x1.6	AEC-Q200
TX0691B	37.4	3.0~3.6	±2.5	2.0x1.6	AEC-Q200
TX1109AA1372	37.4	1.71~3.46 (3.3)	1.71~3.46 (3.3)	2.0x1.6	
TX1140AWAC74	37.4	1.8~3.3	1.8~3.3	2.0x1.6	"*Automotive AEC-Q200 *Wide temp range to +105°C"
TX0766EA13BH	40	2.8	±1	2.5x2.0	
TX0623CN1142	40	1.8~3.6	±2	2.5x2.0	
TW0324C	48	1.8	±10	2.5x2.0	
TX0697C	40	3.3	±2.5	3.2x2.5	
TX0359B	40	2.5	±8	3.2x2.5	*CMOS
TX0704BA1332	37.4	3.3	3.3	3.2x2.5	AEC-Q200
TX1016AA2133	37.4	1.8	1.8	3.2x2.5	AEC-Q200

Bluetooth Xtal

Bluetooth BLE

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ3610A	40	9	±7	1.2x1.0	
TZ3970AABE83	32	9	±10	1.2x1.0	
TZ3969AAAK83	40	7	±7	1.2x1.0	
TZ3793BAAA82	40	8	±7	1.2x1.0	
TZ4033DA41BZ	40	8	±10	1.6x1.2	
TZ4119AA4263	32	12	±10	1.6x1.2	
TZ3368DABE63	32	9	±10	1.6x1.2	
TZ3220DAAK63	40	7	±7	1.6x1.2	
TZ3484B	32	6	±10	1.6x1.2	*Dialog Chip*
TZ3375C	32	6	±10	2.0x1.6	
TZ3471A	16	9	±10	2.0x1.6	
TZ2995B	40	8	±5	2.0x1.6	
TZ2084C	40	8	±5	1.6x1.2	
TZ3266A	38.4	10	±10	1.6x1.2	
TZ3206A	40	9	±10	1.6x1.2	
TZ3044A	24	10	±10	1.6x1.2	
TZ1845A	26	9	±10	1.6x1.2	
TZ3266A	38.4	10	±10	1.6x1.2	
TZ3206A	40	9	±10	1.6x1.2	
TZ3021A	16	6	±10	2.0x1.6	
TZ2486A	16	8	±10	2.0x1.6	*Low profile
TZ1618C	26	9	±10	2.0x1.6	
TZ0661B	26	9	±10	2.0x1.6	
TZ1325D	26	8	±10	2.0x1.6	
TZ3804DACH43	40	15	±10	2.0x1.6	*Wide temp range to +105°C
TZ3877CAAA42	40	7	±7	2.0x1.6	
TZ4104BAAK42	40	9	±10	2.0x1.6	*Wide temp range to +105°C
TZ4104CAAK42	40	9	±10	2.0x1.6	*Wide temp range to +105°C
TZ1670D	16	8	±10	2.5x2.0	
TZ2779C	26	10	±10	2.5x2.0	
TZ2701A	32	12	±10	2.5x2.0	
TZ2099E	37.4	10	±10	2.5x2.0	*Automotive Grade
TZ4145AAAA32	40	7	±7	2.5X2.0	
TZ1185A	16	7.1	±10	3.2x2.5	
TZ1022B	26	7	±10	3.2x2.5	
TZ1402A	26	10	±10	3.2x2.5	

Smart Meter SAW

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P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)	Note
TA2294A	915	1.9	26	1.1x0.9	
TA1294A	915	2.5	26	1.4x1.1	
TA1423A	915	1.9	26	1.4x1.1	
TA1610A	915	2.3	26	1.4x1.1	
TA1766A	925.2	2.5	5.8	1.4x1.1	
TA1918A	911.5	2	27	1.4x1.1	
TA1946A	869	2.5	2	1.4x1.1	
TA2093A	869	3	2	1.4x1.1	
TA2380A	911.5	2.1	27	1.4x1.1	
TA2381A	869	2.5	6	1.4x1.1	
TA2531A	869	2.4	14	1.4x1.1	
TA2710AA1322	922.5	2.2	5	1.4x1.1	
TA2713AA1322	866.5	2	7	1.4x1.1	
TA2897AW1334	915	1.9	26	1.4x1.1	*AEC-Q200
TA2927A	915	2.5	26	1.4x1.1	
TA2988A	866.5	1.9	3	1.4x1.1	
TA2925AA1323	869	1.9	2	1.4x1.1	
TA2897AW1334	915	1.9	26	1.4x1.1	*AEC-Q200
TA1102A	915	2	26	2.0X1.6	*AEC-Q200
TA0281A	915	2.2	26	3.0x3.0	*AEC-Q200
TA0547A	867.5	1.8	6	3.0x3.0	
TA0581B	2345	2.8	90	3.0x3.0	
TA0657A	315	1.5	0.6	3.0X3.0	*AEC-Q200
TA0659A	868.3	2.9	1.5	3.0x3.0	*AEC-Q200
TA0801A	866.5	2.3	7	3.0x3.0	*AEC-Q200
TA0944A	433.92	1.6	1.6	3.0X3.0	*AEC-Q200
TA1404A	869	2.3	2	3.0x3.0	*AEC-Q200
TA1457A	869.6	2.4	1	3.0x3.0	*AEC-Q200
TA1561A	915	1.9	26	3.0x3.0	
TA1564A	315	2.1	0.36	3.0X3.0	*TPMS
TA1565A	433.92	2.4	0.3	3.0X3.0	*TPMS
TA1720A	925.2	2.5	5.8	3.0x3.0	*AEC-Q200
TA1900A	868.3	3	1.5	3.0x3.0	
TA2435A	925.8	2.2	4.6	3.0x3.0	
TA2522ATCA	870.5	3.6	11	3.0x3.0	
TA2532A	869	1.9	8	3.0x3.0	
TA2590A	840.8	2.3	1.5	3.0x3.0	
TA2638A	915	2.7	30	3.0x3.0	
TA2646A	868	2	30	3.0x3.0	
TA2894AW3114	315	1.8	1	3.0x3.0	*AEC-Q200
TA2919AA3110	902.5	3.5	25	3.0x3.0	
TA2924AA3113	895	4	70	3.0x3.0	
TA2966AA3115	490	4	40	3.0x3.0	
TA2556A	457.5	1.9	15	3.8x3.8	
TA2869AA3514	315	2.2	0.4	3.8x3.8	
TA0437A	169	2	6	5.0X5.0	*AEC-Q200

IoT Xtal

IoT | Smart Metering | Alarm & Security | Medical

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ3525FA4185	32	6	±10	1.2x1.0	
TZ3991AAAI83	38.4	6	±7	1.2x1.0	
TZ3470BAAI63	38.4	6	±7	1.6x1.2	*Qualcomm Chip*
TZ3126DAAV63	26	7	±10	1.6x1.2	
TZ4193AAAM63	39	10	±8	1.6x1.2	
TZ2208B	38.4	10	±10	1.6x1.2	
TZ3124B	32	12	±10	1.6x1.2	
TZ2935A	24	15	±9	1.6x1.2	
TZ3023A	24	7	±10	1.6x1.2	
TZ3126A	26	7	±5	1.6x1.2	
TZ3127A	26	8	±7	1.6x1.2	
TZ3003A	37.4	7	±20	1.6x1.2	
TZ3206A	40	9	±10	1.6x1.2	
TZ2936A	48	15	±9	1.6x1.2	
TZ2681EA4363	32	10	±10	1.6x1.2	
TZ3020A	20	7	±20	2.0x1.6	
TZ2155B	32	10	±10	2.0x1.6	
TZ2205D	38.4	10	±10	2.0x1.6	
TZ2205E	38.4	10	±10	2.0x1.6	
TZ1269C	40	9	±10	2.0x1.6	
TZ1452D	40	15	±10	2.0x1.6	
TZ2762D	40	12	±30	2.0x1.6	
TZ3541DAAM43	39	10	±8	2.0x1.6	
TZ3908AAAO43	48	12	±10	2.0x1.6	*TI Chip*
TZ4195AABY43	32	12	±10	2.0x1.6	
TZ2486D	16	8	±10	2.0x1.6	
TZ3016C	32	10	±10	2.0x1.6	
TZ1269D	40	9	±5	2.0x1.6	**Wide temp range to +125°C*
TZ3243A	24.305	7	±10	2.0x1.6	
TZ1670B	16	8	±10	2.5x2.0	
TZ2981E	16	9	±10	2.5x2.0	*Microchip Chip*
TZ2998A	20	7	±20	2.5x2.0	
TZ2277B	24.305	7	±10	2.5x2.0	
TZ0631C	26	10	±10	2.5x2.0	
TZ0661E	26	10	±10	2.5x2.0	
TZ2944A	26	10.5	±7	2.5x2.0	
TZ1430A	30	10	±10	2.5x2.0	
TZ1430D	30	30	±10	2.5x2.0	**Wide temp range to +125°C*
TZ0909D	38.4	10	±10	2.5x2.0	
TZ0909E	38.4	10	±10	2.5x2.0	**Wide temp range to +125°C*
TZ0733D	40	9	±10	2.5x2.0	
TZ2650A	40	12	±10	2.5x2.0	
TZ3101A	40	9.6	±7	2.5x2.0	
TZ3141A	40	12	±5	2.5x2.0	
TZ1411CA5233	24.576	8	±15	2.5x2.0	
TZ2710DA4233	27	20	±10	2.5x2.0	
TZ3916CA6233	25	18	±20	2.5x2.0	
TZ1410A	12.288	9	±20	3.2x2.5	
TZ1917B	12.8	10	±20	3.2x2.5	

IoT Xtal

IoT | Smart Metering | Alarm & Security | Medical

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ2293A	12.8	10	±10	3.2x2.5	
TZ0384C	16	20	±18	3.2x2.5	
TZ1054D	16	8	±10	3.2x2.5	
TZ1275A	16	9	±20	3.2x2.5	
TZ1203B	24	10	±10	3.2x2.5	
TZ2189C	24.305	7	±10	3.2x2.5	
TZ2892B	25	13	±7	3.2x2.5	
TZ0381E	26	9	±10	3.2x2.5	
TZ1387A	26	11.2	±10	3.2x2.5	
TZ0757B	30	10	±10	3.2x2.5	
TZ1615B	32	10	±8	3.2x2.5	
TZ1880D	32	10	±10	3.2x2.5	
TZ0308D	40	9	±10	3.2x2.5	
TZ0475B	40	15	±10	3.2x2.5	
TZ1421A	40	15	±10	3.2x2.5	
TZ2746A	40	11.5	±7	3.2x2.5	
TZ2771D	40	12	±10	3.2x2.5	
TZ2804BA4213	16	14	±10	3.2x2.5	
TZ3404DA4113	20	18	±10	3.2x2.5	
TZ3404EA4113	20	18	±10	3.2x2.5	
TZ3905BACU13	32	10	±10	3.2x2.5	
TZ3915DA4213	38.4	12	±10	3.2x2.5	
TZ4270AA4113	32	12	±10	3.2x2.5	
TZ3108A	32.768kHz	12.5	±20	1.6x1.0	
TZ2065A	32.768kHz	12.5	±20	2.0x1.2	
TZ1006A	32.768kHz	12.5	±20	3.2x1.5	
TZ0614D	10	10	±10	5.0x3.2	
TZ2061A	11.998618	15	±14	5.0x3.2	
TZ2059A	13.573256	15	±16	5.0x3.2	
TZ2594A	13.56	15	±16	HC49-SMD	
TZ1983A	32	10	±10	HC49-SMD	
TZ2095A	11.998618	15	±14	HC49-SMD	
TZ2516A	11.998618	15	±14	HC49-SMD	
TZ2234A	16	20	±18	HC49-US	
TZ2791A	25	13	±7	HC49-US	
TZ1958A	32	10	±10	HC49-US	

IoT TCXO/XO

IoT | Smart Metering | Alarm & Security | Medical

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Note
TX0953AAAU63	48	1.8	±1	1.6x1.2	
TX0844CAAU63	26	1.8	±1	1.6x1.2	
TX1051AF1553	32	3	±1	2.0x1.6	
TX1110AA1473	26	1.8~3.3	±1	2.0x1.6	
TX0763DA11BU	52	1.8	±1	2.0x1.6	
TX0661BABI53	16.368	2.8	±0.5	2.0x1.6	
TX0802EABA53	32	3.3	±1	2.0x1.6	
TX0857CA1053	26	1.8	±0.5	2.0x1.6	
TW0635AAAA22	40	1.2	±30	5.0x3.2	*Low Voltage*
TW0638AAAA32	40	1.2	±30	3.2x2.5	*Low Voltage*
TW0760XAAH50	156.25	3.3	±25	2.0x1.6	*HCSL*
TW0765XAAQ50	156.25	3.3	±20	2.0x1.6	*LVDS*
TW0785XA6355	156.25	3.3	±35	2.0x1.6	*LVPECL*
TX1000DA1133	40	1.7~3.45	±1.0	3.2x2.5	
TX1000BA1333	40	1.7~3.45	±1.0	3.2x2.5	
TX0659A	40	1.8	±0.5	2.0x1.6	
TX0534C	32	1.8	±2	2.5x2.0	
TX0605A	12	3.3	±1.5	3.2x2.5	*CMOS
TX0604A	39	3.3	±1.5	3.2x2.5	*CMOS
TX0341E	26	2.85	±2	3.2x2.5	
TX0338E	30	2.85	±2	3.2x2.5	
TX0665B	36	3.3	±2.5	3.2x2.5	*CMOS *Wide temp range to +105°C
TX0618A	32.768kHz	1.8/2.5/3.0/3.3	±1.5	3.2x2.5	
TX0357A	32.768kHz	3.3	±25	3.2x2.5	
TX0601A	32.768kHz	1.8/2.5/3.0/3.3	±1.5	7.0x5.0	
TW0459B	32.768kHz	1.8	±25	2.5x2.0	
TW0459E	32.768kHz	3.3	±20	2.5x2.0	
TX0740A	31.2	3	±5	2.5x2.0	
TX0546E	26	2.8	±2	2.0x1.6	
TX0501D	31.25	3.3	±2.5	3.2x2.5	
TX0684C	32	3.3	±1.0	2.0x1.6	
TX0694B	30.92	3.3	±1.0	2.5x2.0	
TX0554E	26	1.8	±0.5	3.2x2.5	
TX0659A	40	1.8	±0.5	2.0x1.6	

IoT TCXO/XO

IoT | Smart Metering | Alarm & Security | Medical

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Note
TX0604A	39	3.3	±1.5	3.2x2.5	
TX0341E	26	2.85	±2	3.2x2.5	
TX0338E	30	2.85	±2	3.2x2.5	
TX0665B	36	3.3	±2.5	3.2x2.5	*CMOS *Wide temp range to +105°C
TX0618A	32.768kHz	1.8/2.5/3.0/3.3	±1.5	3.2x2.5	
TX0357A	32.768kHz	3.3	±25	3.2x2.5	
TX0601A	32.768kHz	1.8/2.5/3.0/3.3	±1.5	7.0x5.0	
TW0459B	32.768kHz	1.8	±25	2.5x2.0	
TW0459E	32.768kHz	3.3	±20	2.5x2.0	
TX0740A	31.2	3	±5	2.5x2.0	
TX0546E	26	2.8	±2	2.0x1.6	
TX0501D	31.25	3.3	±2.5	3.2x2.5	
TX0684C	32	3.3	±1.0	2.0x1.6	
TX0694B	30.92	3.3	±1.0	2.5x2.0	
TX0554E	26	1.8	±0.5	3.2x2.5	
TX0659A	40	1.8	±0.5	2.0x1.6	

IoT MCF

IoT | Smart Metering | Alarm & Security | Medical

P/N	Frequency (MHz)	No. of Poles	Insertion Loss (dB)	Rippl	Pass Bands	Stop Bands	Perminal Impedance		
							Ω	pF	cc : pF
TY0160A	21.4	2	3	1	3±3.75	18±15	870	6	
TY0195A	21.4	2	2	1	3±7.5	18±25	1500	2.5	
TY0148A	21.4	3	3	1	3±7.5	23±25	1500	2.5	
TY0190A	21.4	3	3	1	3±10	15±25	850	2	
TY0255A	21.4	4	3	1	3±10	40±25	1800	0.35	5
TY0136A	21.7	2	3	1	3±3.75	20±20	850	6	
TY0150A	21.7	2	1.5	1	3±7.5	15±25	1500	1	
TY0153A	30.72	2	2	1	3±4	40±60	650	4.5	
TY0133A	45	3	3	1	3±7.5	15±25	651	3.5	
TY0187A	45	3	3	1	3±15	20±60	1200	1	
TY0257A	45	4	3	1	3±7.5	30±25	600	2.3	7.5
TY0191F	45.2	4	3	1	3±6	25±22	650	3	9
TY0168A	73.35	3	2	1	3±6.5	8±12.5	1800	-1.6	
TY0147A	76.8	2	3	1	3±4	35±60	1500	-1.4	
TY0184A	109.65	3	2.5	0.7	3±6.5	5.5±12.5	950	-1.4	
TY0261A	149.9725	4	6	1	3±8.68	15±30	550	-0.3	0.7
TY0260A	21.4	4	3	1	3±7.5	40±25	1800	0.35	5
TY0257C	45	4	3	1	3±7.5	30±2	800	1.7	8

2poles	19.05MHz~6.8MHZ
3poles	21.4MHz~109.65MHz
4poles	19.665MHz~51.65MHz

NFC Xtal

NFC

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ2852A	27.12	12	±10	1.6x1.2	
TZ3137A	27.12	8	±10	1.6x1.2	
TZ1897B	27.12	10	±10	2.0x1.6	
TZ2959A	27.12	10	±30	2.0x1.6	
TZ2959A	27.12	10	±30	2.0x1.6	*metal cap structure
TZ3329A	27.12	12	±30	2.0x1.6	
TZ1261C	27.12	10	±10	2.5x2.0	
TZ2598GA7330	27.12	8	±30	2.5x2.0	
TZ0633A	27.12	10	±10	3.2x2.5	
TZ4276AW4414	27.12	12	±10	3.2x2.5	

SSD Xtal

SSD

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TZ3236A	25	6	±10	1.6x1.2	
TZ3206B	40	9	±20	1.6x1.2	
TZ3328BACR60	25	7	±20	1.6x1.2	
TZ4240AACR60	50	7	±20	1.6x1.2	
TZ3328CWCR64	25	7	±30	1.6x1.2	AEC-Q200
TZ2724D	25	6	±10	2.0x1.6	*metal cap structure
TZ2370B	30	6	±10	2.0x1.6	*metal cap structure
TZ2930B	40	6	±45	2.0x1.6	*metal cap structure
TZ2930C	40	6	±10	2.0x1.6	
TZ3898AA42BK	25	8	±10	2.0x1.6	
TZ4139CA5142	25	8	±15	2.0x1.6	
TZ3335B	50	8	±10	2.5x2.0	

Wide Temp Xtal

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Operating Temp (°C)	Application
TZ3953AAAF82	78.125	8	±10	1.2x1.0	- 40°C + 125°C	Networking
TZ3954AAAF82	80	8	±10	1.2x1.0	- 40°C + 125°C	Networking
TZ3861AA44BA	32	8	±10	1.6x1.2	- 40°C + 125°C	BLE Chip Antenna
TZ3908AAAO43	48	7	±5	2.0x1.6	- 40°C + 125°C	IOT
TZ3586A	60	6	±20	2.0x1.6	- 40°C + 125°C	radar for automotive
TX0941AAAO52	40	10K/10pF	±1	2.0x1.6	- 40°C + 125°C	Networking
TZ2205E	38.4	10	±10	2.0x1.6	- 40°C + 125°C	Lighting Control
TZ2966C	20	8	±15	2.0x1.6	- 40°C + 125°C	DC Converter
TZ3398C	38.4	10	±10	2.0x1.6	- 40°C + 125°C	Low Power IOT
TZ3312C	25	16	±10	2.0x1.6	- 40°C + 125°C	Ethernet PHY
TZ3859AA5440	60	10	±15	2.0x1.6	-40~125	Networking
TZ3728BW4444	60	7	±10	2.0x1.6	-40~125	Networking
TZ4284AAAF40	78.125	7.5	±10	2.0x1.6	-40~125	Networking
TZ3035A	24	10	±10	2.5x2.0	- 40°C + 125°C	BT
TZ0909E	38.4	10	±10	2.5x2.0	- 40°C + 125°C	Lighting Control
TZ1054D	16	8	±10	3.2x2.5	- 40°C + 125°C	Zigbee
TZ0447D	16.384	20	±10	3.2x2.5	- 40°C + 125°C	2.4G
TZ2941A	18.08	8	±10	3.2x2.5	- 40°C + 125°C	TPMS
TZ0604P	20	12	±10	3.2x2.5	- 40°C + 125°C	Wireless Lighting
TZ1203B	24	10	±10	3.2x2.5	- 40°C + 125°C	IoT
TZ3034A	24.576	20	±10	3.2x2.5	- 40°C + 125°C	2.4G
TZ2798A	25	15	±10	3.2x2.5	- 40°C + 125°C	LNB
TZ0659C	26	8	±10	3.2x2.5	- 40°C + 125°C	TPMS
TZ2591C	32	12	±10	3.2x2.5	- 40°C + 125°C	Zigbee & WiFi
TZ2756A	40	10	±10	3.2x2.5	- 40°C + 125°C	Security
TZ2711A	50	15	±10	3.2x2.5	- 40°C + 125°C	LNB
TZ3483A	25	8	±20	3.2x2.5	- 40°C + 125°C	Ethernet PHY

LTE SAW

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P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)
TF0228AA0033(Band 1)	1950/2140	1.6	60	1.6x1.2
TF0219AA0031(Band 2)	1880/1960	1.7	59.5	1.6x1.2
TF0229AA0033(Band 3)	1747.5/1842.5	1.6	74.7	1.6x1.2
TF0226AA0033(Band 5)	836.5/881.5	1.3	25	1.6x1.2
TF0218AA0031(Band 7)	2535/2655	1.8	70	1.6x1.2
TF0227AA0033(Band 8)	897.5/942.5	1.7	34.7	1.6x1.2
TF0236AA0030(Band 20)	897.5/942.5	1.8	29.5	1.6x1.2
TF0237AA0030(Band 26)	847/806	1.9	34.5	1.6x1.2
TF0240AA0031(Band 28A)	831.5/876.5	1.7	30	1.6x1.2
TF0232AA0031(Band 66)	718/773	1.8	69.7/89.7	1.6x1.2
TF0120A(Band 1)	1950/2140	1.8	60	1.8x1.4
TF0121A(Band 2)	1880/1960	1.9	59.04	1.8x1.4
TF0135A(Band 3)	1747.5/1842.5	2.1	74.7	1.8x1.4
TF0122A(Band 4)	1732.5/2132.5	1.5	45	1.8x1.4
TF0123A(Band 5)	836.5/881.5	1.4	25	1.8x1.4
TF0124A(Band 7)	2535/2655	2.2	70	1.8x1.4
TF0125A(Band 8)	897.5/942.4	2	30.2	1.8x1.4
TF0133A(Band 12)	707.5/737.5	1.65	17	1.8x1.4
TF0169A(Band 13)	751/782	1.9	51	1.8x1.4
TF0168A(Band 20)	806/847	1.8	29.5	1.8x1.4
TF0136A(Band 25)	1882.5/1962.5	1.9	65	1.8x1.4
TF0137A(Band 26)	831.5/876.5	1.3	34.52	1.8x1.4
TF0155A(Band 28A)	718/773	1.7	30	1.8x1.4
TF0159A(Band 28B)	733/788	1.7	30	1.8x1.4
TF0167A(Band 66)	1745/2155	2	69.04	1.8x1.4
TF0235AA1822(B28F)	725.5/780.5	2.2	45	1.8x1.4
TF0238AA1822(B71)	680.5/634.5	2.7	35	1.8x1.4
TF0126A(Band 1) Bal	1950/2140	1.7	60	1.8x1.4
TF0127A(Band 2) Bal	1880/1960	2	59.04	1.8x1.4
TF0128A(Band 4) Bal	1732.5/2132.5	1.6	45	1.8x1.4
TF0129A(Band 5) Bal	836.5/881.5	1.4	25	1.8x1.4
TF0130A(Band 8) Bal	897.5/942.4	1.5	30.2	1.8x1.4
TE0190AA1833(B3+B1+B7)	1842.5/2140/2655	1.9	75/60/70	1.8x1.4
TE0216AA1830(B39+B34+B41)	1900/2017.5/2595	1.9	40/15/120	1.8x1.4
TF0233AA2722B1(B1+B3 TRX)	1747/1842 1950/2140	"2.3/2.1 2.2/2.5"	"75/75 60/60"	2.5x2.0
TA1845A(Band 1 Rx)	2140	1.9	60	1.1X0.9
TA1815A(Band 1 Tx)	1950	1.8	60	1.1X0.9
TA1870A(Band 2 Rx)	1960	2.3	60	1.1X0.9
TA1871A(Band 2 Tx)	1880	1.7	60	1.1X0.9
TA1843C(Band 3 Rx)	1842.5	2	75	1.1X0.9
TA1885A(Band 3 Tx)	1747.5	2.1	75	1.1X0.9
TA1872A(Band 4 Tx)	1732.5	1.7	45	1.1X0.9
TA1811A(Band 5 Rx)	881.5	1.3	25	1.1X0.9
TA1692A(Band 5 Tx)	836.5	1.9	25	1.1X0.9
TA1847A(Band 7 Rx)	2655	2.3	70	1.1X0.9
TA1886A(Band 7 Tx)	2535	1.7	70	1.1X0.9
TA1839A(Band 8 Rx)	942.5	2	35	1.1X0.9
TA1814A(Band 8 Tx)	897.5	2.3	35	1.1X0.9
TA2037A(Band 12 Rx)	737.5	1.6	17	1.1X0.9
TA2062A(Band 13 Rx)	751	1.9	10	1.1X0.9
TA1813A(Band 13 Tx)	782	1.5	10	1.1X0.9

LTE SAW

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P/N	Frequency (MHz)	Insertion Loss (dB)	Band Width (MHz)	Size (mm)
TA2037A(Band 17 Rx)	737.5	1.6	17	1.1X0.9
TA2439A(Band 17 Tx)	710	1.3	12	1.1X0.9
TA1692A(Band 19 Tx)	836.5	1.9	25	1.1X0.9
TA2041A(Band 20 Rx)	806	2.7	30	1.1X0.9
TA2042A(Band 20 Tx)	847	2	30	1.1X0.9
TA2016A(Band 26 Rx)	876.5	2.1	3.6	1.1X0.9
TA2394A(Band 28 Full Rx)	780.5	2	45	1.1X0.9
TA1897A(Band 28A Rx)	773	2.1	30	1.1X0.9
TA1898A(Band 28B Rx)	788	2	30	1.1X0.9
TA1968A(Band 38 RX)	2595	1.6	50	1.1X0.9
TA1965A(Band 38 TRX)	2595	1.6	50	1.1X0.9
TA2018A(Band 39 RX)	1900	1.4	40	1.1X0.9
TA2018A(Band 39 TRX)	1900	1.4	40	1.1X0.9
TA1969A(Band 40 RX)	2350	1.9	100	1.1X0.9
TA1966A(Band 40 TRX)	2350	1.9	100	1.1X0.9
TK0021AW1234(Band 40 TRX)	2350	1.9	100	1.1X0.9
TA1991A(Band 41 RX)	2605	1.7	100	1.1X0.9
TA1967A(Band 41 TRX)	2602.5	1.8	105	1.1X0.9
TA2819AA1260(Band 41 Full TRX)	2593	1.5	194	1.1X0.9
TA2871AA0034(Band 41 Full TRX)	2593	1.2	194	1.1X0.9
TA2473A(Band 66 RX)	2155	1.9	69.04	1.1X0.9

Mobile Xtal/TSX

4G/5G | LTE | Repeater | Femtocell | Base Station

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Size (mm)	Note
TM0021AAAI61	76.8	7	±16	1.6x1.2	*Qualcomm Chip*
TM0017A	38.4	8	±10	1.6x1.2	
TM0023AAAA61	52	8	±10	1.6x1.2	
TM0014BA4344	38.4	8	±10	2.0x1.6	*AEC-Q200*
TM0019BAAA41	26	8	±10	2.0x1.6	
TM0022AA4444	55.2	8	±10	2.0x1.6	
TM0006B	19.2	7	±10	2.0x1.6	
TM0009A	26	7	±10	2.0x1.6	
TM0010F	38.4	10	±10	2.0x1.6	
TM0014A	38.4	8	±10	2.0x1.6	
TZ1403C	25	12	±10	2.5x2.0	
TM0003C	19.2	7	±10	2.5x2.0	
TZ1432A	26	8	±10	2.5x2.0	
TZ0928A	26	8.4	±10	2.5x2.0	
TM0005A	52	16	±10	2.5x2.0	
TM0011A	26	7	±10	2.5x2.0	
TM0012A	26	9	±10	2.5x2.0	
TZ1689A	26	7.3	±10	3.2x2.5	
TZ0495C	26	8	30±10	3.2x2.5	
TZ1387A	26	11.2	±10	3.2x2.5	

Mobile TCXO/VCTCXO/XO

4G/5G LTE Repeater Femtocell Base Station

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Note
TX0628EA1055	19.2	2.5~3.3	±0.5	2.0x1.6	
TX0807CAAM53	38.4	3.3	±0.5	2.0x1.6	
TX0807DA10BH	38.4	2.7~3.0(2.8)	±0.5	2.0x1.6	
TX0867AA1550	38.4	1.8	±1	2.0x1.6	
TX0882AC10BH	38.4	1.8	±0.5	2.0x1.6	
TX0908AA13AH	38.4	2	±0.5	2.0x1.6	
TX0908BA13AH	38.4	2.8~3.3(2.8)	±0.5	2.0x1.6	
TX0908CA10BH	38.4	3.3	±0.5	2.0x1.6	
TX0908DA1355	38.4	3.3	±1	2.0x1.6	
TX1112BA1375	19.2	2.8	±0.5	2.0x1.6	
TX0920AABT51	19.2	2.8	±0.5	2.0x1.6	
TX0557B	52	1.8	±1	2.0x1.6	
TX0536C	38.4	1.8	±1	2.0x1.6	
TX1131AA1840	26	3.3	±1	2.5x2.0	
TX0371B (UMTS)	26	2.8	±2	2.5x2.0	
TX0445B (UMTS)	26	2.85	±2	2.5x2.0	
TX0617D	26	2.8	±1	2.5x2.0	
TX0362A	19.2	3.3	±1.5	3.2x2.5	
TX0315B (UNTS)	26	2.8	±2	3.2x2.5	
TX0305A (Femtocell)	26	3.3	±2	3.2x2.5	
TX0472 (Femtocell)	19.2	3.3	±2	5.0x3.2	
TX0462 (Stratum III)	10	3.3	±1	7.0x5.0	
TW0617D	156.25	2.5	±50	7.0x5.0	*LVPECL
TW0508A	312.5	2.5	±50	7.0x5.0	*LVPECL
TX0617B	26	2.8	±0.5	2.5x2.0	

TPMS Xtal *operating temperature -40℃~125℃, AEC-Q200 compliance

TPMS

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Stability (ppm)	Size (mm)
TZ2523CA4444	27.12	10	±10	±30	2.0x1.6
TZ2786DW4444	38.4	7	±10	±50	2.0x1.6
TZ2966DA4444	20	8	±10	±50	2.0x1.6
TZ3237EK4444	25	15	±10	±50	2.0x1.6
TZ3425BA4444	40	18	±10	±30	2.0x1.6
TZ3906CW4444	16	11	±10	±50	2.0x1.6
TZ3927CW4444	32	8	±10	±50	2.0x1.6
TZ3936CA4444	25	10	±10	±30	2.0x1.6
TZ3962BA4444	32	6	±10	±30	2.0x1.6
TZ4004BW4444	16	12	±10	±50	2.0x1.6
TZ4116AW4444	20	8	±10	±80	2.0x1.6
TZ4186AW4444	25	6	±10	±35	2.0x1.6
TZ4196AW4444	40	8	±10	±50	2.0x1.6
TZ3912AA4444	26	8	±10	±50	2.0x1.6
TZ3908CA4244	48	7	±7.2	±50	2.0x1.6
TZ3533EA4444	16	8	±10	±40	2.0x1.6
TZ3992EA4444	40	8	±10	±40	2.0x1.6
TZ3573DA4444	24	8	±10	±50	2.0x1.6
TZ2312CA4444	30	8	±10	±50	2.0x1.6
TZ3122C	26	8	±15	±50	2.0x1.6
TZ2966C	20	10	±10	±60	2.0x1.6

TPMS Xtal *operating temperature -40℃~125℃, AEC-Q200 compliance

TPMS

P/N	Frequency (MHz)	Load Capacitance (pF)	Tolerance (ppm)	Stability (ppm)	Size (mm)
TZ1935C	26	10	±10	±50	2.0x1.6
TZ3912AA4444	26	8	±10	±50	2.0x1.6
TZ4004BW4444	16	12	±10	±50	2.0x1.6
TZ3533EA4444	16	8	±10	±40	2.0x1.6
TZ0825E	32	8	±20	±50	2.5x2.0
TZ2666B	19.6875	12	±10	±60	3.2x2.5
TZ2384B	21.948717	10	±10	±50	3.2x2.5
TZ0659C	26	8	±10	±60	3.2x2.5
TZ0659E	26	8	±10	±50	3.2x2.5
TZ1624C	8	10	±10	±50	5.0x3.2
TZ2382A	18.08	12	±30	±80	5.0x3.2

Tuning Fork TCXO-XO Xtal

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Load Capacitance (pF)	Size (mm)	Tolerance (ppm)	Note
TZ3120A	32.768KHz	9	±20	1.6x1.0	
TZ3108C	32.768KHz	12.5	±20	1.6x1.0	
TZ3359COAO74	32.768KHz	7	±20	1.6x1.0	
TZ3108FA6275	32.768K	12.5	±20	1.6x1.0	
TZ3359EA6475	32.768K	7	±20	1.6x1.0	
TZ3158D	32.768KHz	7	±20	2.0x1.2	
TZ3049C	32.768KHz	9	±20	2.0x1.2	
TZ2058E	32.768KHz	12.5	±20	2.0x1.2	
TZ2528D	32.768KHz	12.5	±20	2.0x1.2	AEC-Q200
TZ2065BA6153	32.768K	12.5	±20	2.0x1.2	
TZ3158EA6053	32.768K	7	±20	2.0x1.2	
TZ2065DA6252	32.768K	12.5	±20	2.0x1.2	
TZ2754C	32.768KHz	12.5	±20	3.2x1.5	AEC-Q200
TZ3857AA6022	32.768KHz	9	±20	3.2x1.5	
TZ1166E	32.768KHz	7	±20	3.2x1.5	
TZ2754EW6424	32.768KHz	12.5	±20	3.2x1.5	AEC-Q200
TZ2057EW6424	32.768KHz	7	±20	3.2x1.5	AEC-Q200
TZ4184AW6424	32.768K	7	±20	3.2x1.5	AEC-Q200
TZ4251AA6223	32.768K	12.5	±20	3.2x1.5	
TZ4225AA6225	32.768K	12.5	±20	3.2x1.5	
TZ4256AA6223	32.768K	7	±20	3.2x1.5	

Tuning Fork TCXO-XO XO

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Current Consumption	Note
TW0650AA2250	32.768KHz	1.8	15	2.0x1.6	1.4uA typical	*Ultra low current*
TW0651AA2250	32.768KHz	1.8	15	2.5x2.0	1.4uA typical	*Ultra low current*
TW0599CA2230	32.768KHz	1.8	25	3.2x2.5	0.15 mA typical	*Low current*
TW0459E	32.768KHz	3.3	25	2.5x2.0	2mA max.	
TW0513A	32.768KHz	3.3	25	2.0x1.6	2mA max.	
TW0513CW1354	32.768KHz	3.3	30	2.0x1.6	2mA max.	*AEC-Q200*
TW0651DA1342	32.768KHz	1.8	35	2.5x2.0	0.15 mA typical	
TW0750AA2332	32.768KHz	1.8~3.3	25	3.2x2.5	0.15 mA typical	
TW0750CW2234	32.768KHz	3.3	30	3.2x2.5	0.15 mA typical	*AEC-Q200*

Tuning Fork TCXO

GPS GLONASS GALILEO BEIDOU

P/N	Frequency (MHz)	Voltage (V)	Tolerance (ppm)	Size (mm)	Current Consumption
TXK0001A	32.768KHz	1.6	10	2.1x1.3	1.0uA typical
TX0851BAAJ03	32.768KHz	1.3~5.5	5	2.1x1.3	1.0uA typical
TX0618A	32.768KHz	3.3	5	3.2x2.5	1.0uA typical
TX0777CH6330	32.768KHz	3.3	5	3.2x2.5	1.0uA typical
TX0777EA6330	32.768KHz	3.3	10	3.2x2.5	1.0uA typical

OCXO

Instrument Infrastructure Base Station

Product Category	Size	Vcc	Freq Range	Output	TC Stab	Note
TFE75	PTH L X W: 50.8*50.8mm Height: 38.88mm / 20mm	5V / 9V / 12V	5MHz~100MHz	Sine HCMOS/TTL	0.1~50ppb	
TFE45	PTH L X W: 36*27mm Height: 19mm / 13mm	3.3V / 5V / 12V	5MHz~100MHz	Sine HCMOS/TTL	2~100ppb	
TFE17	PTH L X W: 25.4*25.4 mm Height: 13mm / 10mm	3.3V / 5V / 12V	5MHz~100MHz	Sine HCMOS/TTL	5~100ppb	
TFE512	PTH L X W: 20*20 mm Height: 13mm / 10mm	3.3V / 5V / 12V	5MHz~130MHz	Sine HCMOS/TTL	5~200ppb	
TFE93	PTH L X W: 20*12.8 mm Height: 10.5mm / 8.5mm	3.3V / 5V	2MHz~70MHz	Sine HCMOS/TTL	30~300ppb	
TFE942	SMD L X W: 25.4*22 mm Height: 13mm	3.3V / 5V / 12V	5MHz~40MHz	Sine HCMOS/TTL	5~300ppb	
TFE149	SMD L X W: 14.3*9.3 mm Height: 6.5mm	3.3V / 5V	10MHz~40MHz	Clipped Sine HCMOS/TTL	30~300ppb	
TFE97	SMD L X W: 9.7*7.5 mm Height: 4.1mm	3.3V / 5V	10MHz~40MHz	Clipped Sine HCMOS/TTL	30~300ppb	
TFE7000	Dip L X W:20*13 mm	3.3V / Vc=1.4V	16.384MHz	CMOS	10ppb	*Ultra low power*
Low G	PTH L X W: 36.3*27.2mm Height: 16mm	5V / 9V / 12V	100MHz	CMOS	100ppb	*Low G sensitivity*
Double oven	PTH L X W: 36.3*27.2mm Height: 16mm	5V / 9V / 12V	10MHz	CMOS	0.2ppb	*High precision*

HFHE XO

Fiber Data Center

Product Category	TST Product Type	Size (mm)	Popular Freq (MHz)	Supply Voltage (V)	Freq. stab. (ppm)	Temp Range	Output
XO	TW-7050-D	7x5x1.45	7 7.76, 106.25, 125, 155.52, 156.25, 187.5, 212.5, 312.5	3.3, 2.5	+/-25,+/-50	-20~+70C, -40~+85C	PECL / LVDS
	TW-5032-D	5x3.2x1.25	25, 106.25, 125, 156.25, 161.1328, 212.5	3.3, 2.5	+/-25,+/-50	-20~+70C, -40~+85C	PECL / LVDS
	TW-3225-PL	3.2x2.5x0.9	25, 106.25, 125, 156.25, 161.1328, 212.5	3.3, 2.5	+/-25,+/-50	-20~+70C, -40~+85C	PECL / LVDS
VCXO	TXV-7050-D	7.0x5.0x1.75	77.76, 106.25, 122.88, 125, 155.52, 156.25, 200	3.3, 2.5	+/-25,+/-50	-20~+70C, -40~+85C	PECL / LVDS
	TXV-7050-C	7.0x5.0x1.75	10, 20, 25, 27, 32.768, 35.328, 38.88, 61.44, 122.88, 153.6	3.3	+/-25,+/-50	-20~+70C, -40~+85C	CMOS
	TXV-5032-D	5.0x3.2x1.25	122.88, 153.6, 155.52, 156.25	3.3	+/-25,+/-50	-20~+70C, -40~+85C	PECL / LVDS
	TXV-5032-C	5.0x3.2x1.25	19.44, 3 8. 4	3.3	+/-25,+/-50	-20~+70C, -40~+85C	CMOS
TCXO	TX-7050-S1	7.0x5.0x1.9	10, 12.8, 16.384, 19.2, 19.44, 20, 25, 26	5.0, 3.3	+/-0.14,+/-0.28	-20~+70C, -40~+85C	CMOS / Clipped Sine
	TX-7050-CSW	7.0x5.0x1.9	10, 12.8, 16.384, 19.2, 19.44, 20, 25, 26	5.0, 3.3	+/-0.37~+/-2	-20~+70C, -40~+85C -40~+105C	CMOS / Clipped Sine
	TX-7050-S2	7.0x5.0x1.9	8.192, 10, 12.8, 16.384, 19.2, 19.44, 20, 25, 26	5.0, 3.3	+/-0.28	-20~+70C, -40~+85C	CMOS / Clipped Sine
	TX-7050-CS	7.0x5.0x1.9	5, 6.4, 8, 8.192, 10, 12.5, 12.8, 16, 16.384, 19.44, 25	5.0, 3.3	+/-0.37~+/-2	-20~+70C, -40~+85C	CMOS / Clipped Sine
	TX-5032-CS	5.0x3.2x1.55	10, 12.8, 13, 19.2, 20, 25, 26, 30.72	5.0, 3.3	+/-0.1, +/-0.28	-20~+70C, -40~+85C	CMOS / Clipped Sine

Quick Term XO/VCXO/TCXO

Fiber Data Center

Product Category	TST Product Type	Size (mm)	Popular Freq (MHz)	Supply Voltage (V)	Freq. stab. (ppm)	Temp Range	Output
XO	TW	3.2x2.5/ 2.5x2.0.2/ 2.0x1.6	1MHz~200MHz (~125MHz,1.8V)	3.3, 2.5,1.8	+/-20	-40~+85C	CMOS
VCXO	TWQN	7x5/5x3.2/ 3.2x2.5	10MHz~1.5GHz (CMOS 50~250MHz)	3.3, 2.5	+/-25,+/-50	-20~+70C, -40~+85C	CMOS/PECL/LVDS
	TWJF	7x5/5x3.2	50MHz~2.1GHz (CMOS 50~250MHz, HCSL 150~700MHz)	3.3, 2.5,1.8	+/-25,+/-50	-20~+70C, -40~+85C	LVCMOS/LVPECL / LVDS/HSCL/CML
TCXO	TXQF	3.2x2.5	10MHz~1.5GHz (CMOS 50~250MHz)	3.3, 2.5	+/-2.5,+/-1.5	-30~+85C, -40~+85C	CMOS/LVPECL/LVDS
	TXQF	5.0x3.2	10MHz~2.1GHz (CMOS 50~250MHz, HCSL 150~700MHz)	3.3, 2.5,1.8	+/-1.5,+/-1.0	-40~+85C	LVCMOS/LVPECL/ LVDS/HSCL/CML

Timing Module

Fiber Data Center

Oscillator	TST Product Type	Size (mm)	Freq (MHz)	Supply Voltage (V)	Freq. stab. (ppm)	Temp Range	Feature
TCXO	TST-11	25x25x9.4	10MHz	3.3	1PPS accuracy: <+/-75ns RMS	Yes	Low Poewr / Low cost/Affordable
OCXO	TST-300	48x48x25	10MHz	12	Holdover: 8 us/24hrs	Yes	Pin comppatible to 50x50 OCXO
DOCXO	TST-6565	65x65x23	10MHz	5	Holdover: 1.5 us/24hrs	No	Low-end Rubidium replacement
Atomic Clock	TST-100	50x50x20.5	10MHz	3.3	<+/-5x10-11 at shipment	No	Low-end Rubidium replacement

LTCC Filter

P/N	Center Frequency (MHz)	Pass Band (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Size (mm)	Application	Note
TL0001A	3550	3300~3800	500	0.9 Max	1.6X0.8	LTE Band 42/43	
TL0009A	2450	2400~2500	100	1.5Max	2.0X1.25	Bluetooth, Wireless LAN	TDK DEA202450BT-1294C1-H ACX BF2012-L2R4DAA
TL0009BA0094	2450	2400~2500	100	2.0Max	2.0X1.25	Automotive	
TL0010A	2450	2400~2500	100	2.5 Max	1.6X0.8	2.4G Wi-Fi	EPCOS DEA2450BT Murata LFB182G45SG9A272
TL0011A	5410	4900~5920	1050	2.0 Max	2.0X1.25	5G Wi-Fi	
TL0015A	829.5	699~960	261	0.7 Max	1.6X0.8	NB-IOT	EPCOS DEA160960LT-5044C1 Murata LFL18829MTF1D897
TL0016A	1850	1710~1990	280	0.6 Max	1.6X0.8	NB-IOT	
TL0017B	2450/5500	2400~2500 5150~5850	100/700	0.6Max@2400~2500MHz 1.5Max@5150~5850MHz	1.6X0.8	WiFi+Combo Modules	
TL0019A	5788	5725~5850	125	2.4 Max	2.5X2.0	5G Wi-Fi (V2X)	
TL0019B	5788	572.5~5850.5	125	2.4 Max	2.5X2.0	V2X	
TL0020A	915	902~928	26	0.7 Max	2.0x1.25	LTE, IOT	Murata LFL21915MTC1A027 Johanson 0915LP15B026
TL0022A	205.5	174~237	63	1.6Max	3.2X2.5	Automotive	
TL0023A	902.5	890~915	25	0.6 Max	2.0x1.25	LTE, IOT	
TL0024A	2450	1870~3030	1160	0.7Max	2.0X1.25	Bluetooth, Wireless LAN	Johanson 2450BP15T0100-1
TL0025A	2448	2412~2484	72	1.35Max	2.0X1.25	Bluetooth, Wireless LAN	Murata LFB212G45SG8A166
TL0026A	869.5	824~915	91	0.7 Max	0.65X0.5	GSM Band RF Application	
TL0027A	869.5	824~915	91	0.85 Max	1.0X0.5	GSM Band RF Application	
TL0028A	869.5	824~915	91	0.45 Max	1.6X0.8		
TL0029A	2200	1700~2700	1000	1.05 Max	1.6X0.8	WiFi	Murata LFL181G35TF1D951
TL0030A	1867.5	1710~2025	315	1.6 Max	1.0X0.5	1.8 GHz DCS/ PCS Band RF Application	
TL0031A	1952.5	1880~2025	145	1.1 Max	1.6X0.8	WiFi	
TL0032A	5887.5	5850~5925	75	1.6 Max	2.5X2.0	V2X	
TL0032B	5887.5	5850~5925	75	2.2Max	2.5x2.0	Wave Module	
TL0033A	3600	3400~3800	400	1.2 Max	2.0x1.25	LTE Band 42/43	
TL0034A	915	902~928	26	0.5 Max	2.0x1.25	LTE, IOT	
TL0035A	5788	5725~5850	125	1.2 Max	2.5X2.0	5G Wi-Fi (V2X)	
TL0035B	5788	5725.5~5850.5	125	1.5Max	2.5x2.0	All Market	
TL0036A	2450	2400~2500	100	1.5Max	1.6x0.8	WiFi	
TL0037A	3750	3300~4200	900	2.25 Max	2.0X1.25	5G N77	
TL0038A	4700	4400~5000	600	2.3 Max	2.0X1.25	5G N79	
TL0040A	5550	5150~5950	800	1.2Max	1.6x0.8	GNSS L5 Smart Antenna	
TL0041AA0094	2450/5424	2400~2500 4900~5950	100/1050	0.9Max@2400~2500MHz 1.1Max@4900~5950MHz	1.6x0.8	Networking	
TL0042AAAT92	2450/5425	2400~2500 4900~5950	100/1050	0.55Max@2400~2500MHz 0.7Max@4900~5950MHz	1.6x0.8	Networking	
TL0043AA2095	2450	2400~2500	100	4.0Max	2.0x1.25	WiFi	
TL0044AA0090	2450	2400~2500	100	4.0Max	2.0x1.25	WiFi	
TL0045AA0090	2450	2400~2500	100	4.0Max	2.0x1.25	WiFi	
TL0046AA0092	2450	2400~2500	100	4.0Max	2.0x1.25	WiFi	
TL0047AA0092	2450	2400~2500	100	1.4Max	2.0x1.25	IOT	
TL0048AA0092	2450	2400~2500	100	0.45Max	1.6x0.8	IOT	
TL0049AA0092	7240	6240~8240	2000	2.5Max	2.0x1.25	IOT	

DR Filter

P/N	Center Frequency (MHz)	Pass Band (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Size (mm)	Application	Note
TR0001A	3625	3550~3700	150	3.0 Max	26X11.5	LTE Band 48	
TR0002A	5825	5725~5925	200	2.0 Max	4.4X3.9	V2X	
TR0003A	3500	3400~3600	200	2.5 Max	4.5X3.8	LTE Band 42	
TR0004A	3500	3400~3600	200	2.0 Max	15.9X6.2	LTE Band 42	
TR0005A	3700	3600~3800	200	2.5 Max	4.5X3.8	LTE Band 43	
TR0007B	5235	5150-5330	180	2.5 Max @5150-5320 3.5 Max @5360	8.6X4.05	5G Wi-Fi	*Qualcomm solution*
TR0008A	5240	5140~5340	200	2.1 Max	3.25x2.58	5G Wi-Fi	*MTK solution*
TR0009A	5245	5150~5340	190	2.0 Max	8.05x4.05	5G Wi-Fi	*Broadcomm solution*
TR0010A	5250	5170~5330	160	2.5Max	8.05x4.05	5G Wi-Fi	*Intel solution*
TR0011A	5665	5480~5850	370	2.0 Max	8.05X3.45	5G Wi-Fi	*Broadcomm solution*
TR0012A	5670	5480~5860	380	2.1 Max	3.25x2.58	5G Wi-Fi	*MTK solution*
TR0013A	5710	5490~5935	445	2.5Max	8.05X3.45	5G Wi-Fi	*Intel solution*
TR0014B	5697	5490-5850	360	2.5 Max	8.6X3.45	5G Wi-Fi	*Qualcomm solution*
TR0015A	1975	1840~2110	270	1.0 Max	26X11.5	V-set	
TR0016A	915	902~928	26	2.5 Max	11.4x8.95	ISM	
TR0017A	5825	5725~5925	200	2.5 Max	8.05X3.35	V2X	
TR0019A	5962.5	5725~6200	475	2.0 Max	6.6x3.15	V2X	
TR0020A	1223	1198~1248	50	2.0 Max	6.6x6.05	L2 GPS	
TR0021A	1581	1541~1621	80	1.0 Max	6.6x6.05	L1 GPS	
TR0022A	5825	5725~5925	200	2.0 Max	4.46x2.75	V2X	
TR0023A	1230	1160~1300	140	2.0 Max	9.2x8.1	L2 GPS	
TR0024A	1241	1197~1285	88	2.0 Max	9.2x8.6	L2 GPS	
TR0025A	5235	5150~5330	180	2.5 Max	8.7X4.27	WLAN	
TR0026A	5697	5490-5850	360	2.5 Max	8.6X3.45	WLAN	
TR0027A	3450	3300~3600	300	2.0 Max	7.2x4.35	WiFi	
TR0028A	813	798~828	30	1.5 Max	11.4x8.55	ISM	
TR0029A	637	624~649	25	1.5 Max	11.4x11.15	ISM	
TR0030A	663	650~676	26	1.5 Max	11.4x10.75	ISM	
TR0031AA0090	3080	2960~3200	240	2.0Max	8.4x3.8	others	
TR0032AA0090	2845	2815~2875	60	2.0Max	8.4x3.8	others	
TR0033AA0090	2917	2880~2955	75	2.0Max	8.4x3.8	others	
TR0034AA0095	3450	3300~3600	300	2.0Max	15.9x4.4	Consumer	
TR0035AA0095	2595	2515 ~ 2675	160	1.5Max	15.9x4.4	Consumer	
TR0036AA0095	3750	3700 ~ 3800	100	1.5Max	15.9x4.4	Consumer	
TR0037AA0095	4700	4600 ~ 4800	200	1.5Max	15.9x4.4	Consumer	
TR0038AA0095	3500	3400 ~ 3600	200	1.5Max	15.9x4.4	Consumer	
TR0039AA0095	3450	3400 ~ 3500	100	2.0Max	15.9x4.4	Consumer	
TR0040AA0095	3550	3500 ~ 3600	100	2.0Max	15.9x4.4	Consumer	
TR0041AA0092	5795	5755~5835	80	2.5 Max	8.7x3.22	Networking	
TR0048AA0092	3480	3340~3620	280	2.0 Max	8.7x3.22	Networking	

LNA

TST P/N	Frequency (MHz)	Vdd (V)	Idd (mA)	NF (dB)	Gain (dB)	P1dB (dBm)	IP3 (dBm)	Size (typ,mm)	Application	Note
TN0293AA0080	1550-1615	1.5-3.3	3.5	0.75	19	-12.5	-1.5	EPFFP6-X2 1.1x0.7x0.37	GNSS	
TN0292AA0080	1164-1300	1.5-3.7	4.5	0.7	20	-13.5	-2	EPFFP-FA 1.1x0.7x0.37	GNSS	
TN0291AA0080	1164-1610	1.5-5.5	5	0.75	17.5	-10	0	DFN1616-6-GE 0.7 x 1.1 x 0.37	GNSS	
TN0300AA0080	1559-1610 1164-1300	1.5-3.7	8	0.6 0.65	34 37	+14 (out) +13 (out)	+16 (out) +19 (out)	ESON6-G1 1.6x1.6x0.397	GNSS	
TN0299AW0080	1559-1610 1164-1300	1.5-3.7	8	0.6 0.65	34 37	+14 (out) +13 (out)	+16 (out) +19 (out)	ESON6-G1 1.6x1.6x0.397	GNSS	AEC-Q100 grade 2
TN0290AA0080	3300-4200 4400-5000	3.3-5.0	50	0.48 0.63	26 21	+19 (out)	+37 (out)	DFN1616-6-GD 1.6x1.6x0.397	5G(Sub 6GHz)	

GNSS FEM

TST P/N	Frequency (MHz)	Vdd (V)	Idd (mA)	NF (dB)	Gain (dB)	P1dB (dBm)	IP3 (dBm)	Package Size (mm)	Application	Note
TN0081B	1575	1.8/2.8	2.6/3.3	1.6/1.55	17.5/18.5	-17/-15	-4/-6	HFFP10-CD 2.5X2.5x0.63	GPS+GLONASS+GALILEO +BEIDOU SAW/LNA/SAW	AEC-Q100 grade 2
TN0089A	1575 1597-1606 1559-1591	1.8/2.8	3.0/3.7	1.55/1.5 1.7/1.65 1.75/1.7	15.5/16 16/16.5 16/15.5	-13/-10	-5/-2	HFFP10-HH 1.5X1.1x0.5	GPS+GLONASS +GALILEO+BEIDOU	AEC-Q100 grade 2
TN0175BA1584	1221.5	1.8/2.8	3.0/3.7	2.28/2.31	16.5/17.2	-9.8	-1.5	HFFP10-CD 1.5X1.1x0.5	GNSS E5b//L2/G2	AEC-Q100 grade 2
TN0201A	1189.5	1.8/2.8	3.0/3.7	2.28/2.31	16.5/17.2	-9.8	-1.5	HFFP10-CD 1.5X1.1x0.5	GNSS L5+G3	AEC-Q100 grade 2
TN0222AA1584	1176.45	1.8/2.8	3.0/3.7	2/1.85	17/17.5	-9.8	-1.5	HFFP10-CD 1.5X1.1x0.5"	GNSS L5	AEC-Q100 grade 2
TN0267AA0084	1164-1214 1228	2.8	4.8	1.7 2.0	19.5 19	-12	-3	HFFP10-JL 1.5X1.23x0.47	GNSS L5/E5/B2/G3/L2C	AEC-Q100 grade 2
TN278AW1584	1246.875	1.8/2.8	3.0/3.7	2/1.85	16/16.5	-9.8	-1.5	HFFP10-CD 1.5X1.1x0.5	GNSS L2/G2/B3	AEC-Q100 grade 2
TN0279AW1584	1278.5	1.8/2.8	3.0/3.7	2/1.85	16/16.5	-9.8	-1.5	HFFP10-CD 1.5X1.1x0.5	GNSS L6/E6/B3	AEC-Q100 grade 2

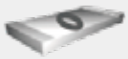
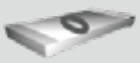
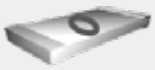
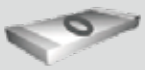
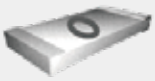
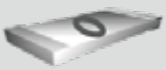
Metal Strip Current Sense Resistors

Photo	Model	Type/Size	Power Rating(W)	Resistance Range(mΩ)	Operation Temp. Range	TCR
	TMCSL TMCSTL	SMD 0306 (Inch)	0.25W	1<R≤30	-55~+170℃	±100
	TMCSL TMCSTL	SMD 0508 (Inch)	0.5W	1<R≤30		
	TMCSL TMCSTL	SMD 0612 (Inch)	1W	1<R≤30		
	TMCSL TMCSTL	SMD 0815 (Inch) SMD 3720 (mm)	2W	1<R≤10		
	TMCSL TMCSTL	SMD 1020 (Inch)	2W	1<R≤10		
	TMCSL TMCSTL	SMD 1225 (Inch)	3W	1<R≤30		
	TMCSL TMCSTL	SMD 1530 (Inch)	4W	2<R≤30		
	TMCSL TMCSTL	SMD 1628 (Inch)	4W	2<R≤30		
	TMCSL TMCSTL	SMD 2043 (Inch)	6W	2<R≤30		

Metal Strip Current Sense Resistors

Photo	Model	Type/Size	Power Rating(W)	Resistance Range	Operation Temp. Range	TCR	AEC-Q200
	TD-MCSH0402	SMD 0402	0.25	8<R≤20	-55~+170℃	±200	Yes
				2.5≤R≤8		±200	
	TD-MCSH0603	SMD 0603	0.5	10<R≤30		±75	
				5≤R≤10		±100	
				1.0≤R≤5		±100	
	TD-MCSE0805	SMD 0805	0.5	10<R≤30		±50	
				5≤R≤10		±100	
				1.0≤R≤4		±100	
	TD-MCSE1206	SMD 1206	0.5/1.0	10<R≤50		±50	
				4≤R≤10		±75	
				1.0≤R≤4		±100	
	TD-MCS2512	SMD 2512	1.0/1.5/2.0	10<R≤100		±50	
				1.0<R≤10		±100	
	TD-MCSH2512	SMD 2512	3	2.0<R≤30		±50	
	TD-MCSE2816	SMD 2816	2	10<R≤330		±50	
				3≤R≤10		±100	
	TD-MCSE4320	SMD 4320	5	10<R≤20		±50	

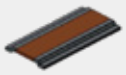
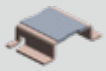
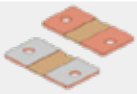
Current Sense Resistors-Zero Jumper

Photo	Model	Type/Size	Rating Current(A)	Max. Resistance (mΩ)	Operation Temp. Range	Max. overload current (A)
	TD-TCS0 0402	SMD 0402 Jumper	5.7	3	-55~+155℃	14.2
	TD-TCS0 0603	SMD 0603 Jumper	22.4	0.5		56
	TD-TCS0 0805	SMD 0805 Jumper	31.6			79
	TD-TCS0 1206	SMD 1206 Jumper	38			96.7
	TD-TCS0 2512	SMD 2512 Jumper	63.2			158
	TD-TCS0 0805	SMD 0805 Extra Low Resistance Jumper	31.6	0.2		79
	TD-TCS0 1206	SMD 1206 Extra Low Resistance Jumper	38			96.7
	TD-TCS0 2512	SMD 2512 Extra Low Resistance Jumper	63.2			158

ICP Current Sense Resistors-High Resistance Rsistor

Photo	Model	Type/Size	Power Rating(W)	Resistance Range(mΩ)		Operation Temp. Range	TCR
	TD-CCS0402	SMD 0402	1/16	1%	2%	-55~+155℃	±800 ±500 ±200
	TD-CCSH0603	SMD 0603	0.125	50-99 100-499 500-976			
	TD-CCSH0805	SMD 0805	0.25				
	TD-CCSH1206	SMD 1206	0.5				
	TD-CCSH2512	SMD 2512	2	10~47 47~200 200~910		-55~+155℃	±300 ±200 ±100
	TD-CCS124T	SMD 1206 4 Terminals	0.5	10		-55~+155℃	±800

Current Sense Resistors-Metal Shunt Resistor

Photo	Model	Type/Size	Power Rating(W)	Resistance Range	Operation Temp. Range	TCR	AEC-Q200
	TD-MCSS1206	SMD 1206 Matel Element	3	0.3<R≦3	-55~+170℃	±50 ~ ±100	Yes
	TD-MCSS2512	SMD 2512 Matel Element	3~5	0.20<R≦5			
	TD-MCSS2726	SMD 2726 Matel Element	6	0.5			
	TD-MCSS3222	SMD 3222 Matel Element	12	0.15<R≦0.5			
	TD-MCSS3920	SMD 3920 Matel Element	5~10	0.2<R≦5			
	TD-MCSS5930	SMD 5930 Matel Element	6~15	0.1<R≦3			
	TD-MCSS2550	SMD 2550 Matel Element	12~20	0.045<R≦0.5	-55~+170℃	±50	
	TD-MCSS2527	SMD 2527 Matel Element	6~12	0.1~0.2		±100	
	TD-MCSS2725	SMD 2725 Matel Element	5~10	0.2<R≦5		±50	
	TD-MCSS4026	SMD 4026 Matel Element	5~10	0.2<R≦5		±50	
	TD-MCSS1216	SMD 1216 Matel Element	5	0.3<R≦1		±100	
	TD-MCSS4512	SMD 2527 Matel Element	3	5.0<R≦10		±50	
	TD-MCSS5216	Thru hole 5216 Matel Element	12	0.1<R≦0.25	-55~+170℃	±200	
	TD-MCSS6918	Thru hole 6918 Matel Element	25	0.05<R≦0.1		±100	
	TD-MCSS7036	Thru hole 7036 Matel Element	36	0.025<R≦0.1		±100	
	TD-MCSS5515	SMD 5515 Matel Element	10	0.1<R≦0.20		±100	
	TD-MCSS8420/8518	Thru hole 8420/8518 Matel Element	40	0.025<R≦0.1		±100	

3D Magnetic Sensors

TST P/N	High Sensitivity	Output Resolution	Dynamic Range	Hysteresis	Temperature Drift Sensitivity	Temperature Drift Offset	Interface	Operating Voltage	Operating Temperature Range	Dimensions	Package Type
TJ8308AA0003	1320 LSB/Gauss	14-bit	±500 μT	<0.1% FS	±0.023 %/°C	±0.017 μT/°C	I2C	2.4V~3.6V(Analong) 1.72V~3.6V(Digital)	-40°C to +125°C	3.0×3.0×0.625 mm	LGA-16 pin
TJ8310AA0003	330 LSB/Gauss	14/16-bit adjustable	±1600 μT(X,Y-axis), ±2500 μT(Z-axis)	<0.1% FS	±0.016 %/°C	±0.024 μT/°C	I2C	1.72V~3.6V	-40°C to +85°C	3.0×3.0×0.625 mm	LGA-16 pin

3D omni polar magnetic switch

TST P/N	Type	Active Sensing Axes	Operating Current	Operating Voltage	Operating Temperature Range	Dimensions	Package Type
TJ8508AA0003	Omnipolar AMR/Hall-effect Sensor Switch	3 Axes (X, Y, Z)	3 mA	2.5 ~ 5.5V	-40°C ~ +85°C	2.92×1.6 mm	SOT23-3L

Features

- High sensitivity of up to 330 LSB/Gauss.
- I²C slave, Fast Mode up to 400 kHz.
- 14 or 16 bits adjustable data output.
- Wide dynamic range of±1600 μT (X, Y-axis) and ±2500 μT (Z-axis).
- High output data rate of maximum 200 Hz.
- Ultra-low hysteresis (<0.1%FS).
- Ultra-low sensitivity temperature drift (±0.016%/℃).
- Ultra-low offset temperature drift (0.024 uT/℃).
- Wide operating temperature range(-40~85℃).
- High precision temperature compensation.
- Built-in self-test function.
- Software and algorithm support are available (for tit compensation, cross-axis compensation, soft/hard-iron calibration and noise suppression).
- RoHS,HF and TSCA compliant.

IC Design in Reference

QUALCOMM

Application	Chips	TST P/N
WiFi	RF chip Hasting prime 2/WCN6851 QCA6381 QCA6391/ QCA6390	TZ3769AAAI42 (76.8M/2.0x1.6) TZ3770AAAI82 (76.8M/1.2x1.0) TZ3977CAAI62 (76.8M/1.6x1.2) AEQ200
BLE	QCC5171 QCC5161 CSR/QCC5141 CSR/QCC5141 CSR/QCC5141 CSR IPQ5010	TZ3330AOAI43 (26M/2.0x1.6) TZ3484COAI62 (32M/1.6x1.2) TZ3484COAI62 (32M/1.6x1.2) TZ3525A(32M/1.2x1.0) TZ3484C(32M/1.6x1.2) TZ3375D (32M/2.0x1.6) TZ3106C (16M/2.5x2.0) TZ2993DAAI42(48M/2.0x1.6)

MTK

Application	Chips	TST P/N
MCU WiFi	MT7933	TZ3569B (26M/2.5x2.0) TZ1006B (32.768K/3.2x1.5)
WiFi 6	MT7915 MT7920 (Pending) MT7921	TZ0356E (40M/ 3.2x2.5) TZ3096B (40M/ 3.2x2.5) TZ3146E (26M/ 3.2x2.5) TZ3311A (26M/ 2.5x2.0) TZ2965C (40M/ 2.5x2.0) TZ1379BA2212 (40M/ 3.2x2.5)
WiFi 6e	MT7922 MT7902 Panther (MT7986) / Merlin (MT7975) / Cheetah (MT7976)	TZ3788AA2282 (40M/ 1.2x1.0) TZ2965C (40M/ 2.5x2.0) TZ3600CAAA12 (3.2x2.5) TZ1181EAAA32 (2.5x2.0) TZ3877CAAA42 (2.0x1.6) TZ3451D (40M/ 3.2x2.5)
WiFi 7 (CPU)	Jaguar	TZ3451D (40M/ 3.2x2.5)
IoT	MT6825 + MT3335	TZ3330A (2.0x1.6) TA2825AA1243 (1.1x0.9)

SILABS

Application	Chips	TST P/N
Thunderboard evb kits	EFM32GG11B820F2048GL192 EFM32GG12B810F1024GM64	TZ3139C (48MHz/2.0x1.6)
Bluetooth	TI MCU	TZ3865AABA33 (32MHz /2.5x2.0/-40~85℃) TZ3277D (26MHz/2.5x2.0/-40~85℃) TZ2528E (32.768KHz/2.0x1.2)
Z-Wave	SD3502	TZ3978BAAM13 (32MHz/2.5x2.0 / -30~85℃)
Wifi module	EFM32GG11B820F2048GL192 EFM32GG12B810F1024GM64 ZGM230S_SiP	TZ3017D(50M/2.0x1.6) TZ3541B
WiFi	RS MCU EM357-RTR	TZ3992DAAM13 (40MHz/2.0x1.6/-35~85℃) TZ2528E (32.768KHz/2.0x1.2) TZ2528E (32.768KHz/2.0x1.2) TZ0476D (24MHz/3.2x2.5/-40~85℃)
Zigbee	EFR32MG24 EFR32MG22 EFR32MG21 EFR32MG13 EFR32BG22	TZ3541CN4440 (39MHz/2.0x1.6/-40~125℃) TZ3541B (39MHz/2.0x1.6/-40~105℃) TZ2528E (32.768KHz/2.0x1.2) TZ2528E (32.768KHz/2.0x1.2) TZ3516DAAM40 (38.4MHz/2.0x1.6/-40~125℃) TZ2528E (32.768KHz/2.0x1.2) TZ3142BAAM43 (38.4MHz/2.0x1.6/-40~85℃ TZ2528E (32.768KHz/2.0x1.2) TZ3398B (38.4MHz/2.0x1.6/-40~105℃) TZ2528E (32.768KHz/2.0x1.2)
Bluetooth	EFR32BG21 EFR32BG13 EFR32BG1 EFR/M32	TZ3516DAAM40 (38.4MHz/2.0x1.6/-40~125℃) TZ2528E (32.768KHz/2.0x1.2) TZ3142BAAM43 (38.4MHz/2.0x1.6/-40~85℃) TZ2528E (32.768KHz/2.0x1.2) TZ3142BAAM43 (38.4MHz/2.0x1.6/-40~85℃) TZ2528E (32.768KHz/2.0x1.2) TZ3398B (38.4KHz/2.0x1.6) TZ2528C(32.768kHz/2.0x1.2)
BT/ZigBee	BGM220P	TZ2528E (32.768kHz/2.0x1.2)
ZigBee+BLE+Sub 1G+Z-Wave	EFR32 EFR32MG2x EFR32ZG14 (new chip) EFR32ZG13 (new chip) new chip can cover Z-wave EFR32MG2x EFR32ZG14 (new chip) EFR32ZG13 (new chip) new chip can cover Z-wave EFR32MG2x EFR32ZG14 (new chip) EFR32ZG13 (new chip) new chip can cover Z-wave	TZ3158D (32.768KHz/2.0x1.2) TZ3398B (38.4M/2.0x1.6) TZ2528C (32.768K/2.0x1.2) TZ0909E (38.4M/2.5x2.0)

TI

Application	Chips	TST P/N
WiFi	Loki, LP-EM-CC2430R5 CC1314R10 CC3301/FENRIS/ CC1308 Connectivity reference design	TZ3581F TZ3780AAAO44 TZ3359DAAO73 (32.768K/20/7/1.6x1.0) TZ3908AAAO43 (48/5/7/2.0x1.6) TZ2057DAAO22 (32.768K/20/7/3.2x1.5) TZ3780AAAO44 (48/5/7/2.0x1.6)
Wi-Fi 6 IOT	CC3351	TZ3877AAAO44 (40/5/7/2.0x1.6)
IoT	CC13x2, CC26x2 wireless MCU (CC13xx, CC26xx) Agama (CC2652P, CC2652R)	TZ3877AAAO44 (40/5/7/2.0x1.6) TX0870DAAO52 (40/1.5/2.0x1.6) TZ3877AAAO44 (40/5/7/2.0x1.6) TZ3877AAAO44 (40/5/7/2.0x1.6) TZ1166C (32.768M/3.2x1.5) TZ2365C (48M /2.0x1.6) TZ3220B (40M/1.6x1.2/-40~105) TZ3220C (40M/1.6x1.2/-40~125) TZ3225C (40M/2.0x1.6/-40~105) TZ3225B (40M/2.0x1.6/-40~125) TZ3780AAAO44 (48M, 2016, 105C) TZ3359CAAO74 (32.768M/1.6x1.0/105C)
Automotive	WL1807 CC2340 CC2745x10-Q1	TX0889BCAO54 TZ3908EAAO44 (48/6/7/2.0x1.6) TZ4069AAAO44 (48/10/7/2.0x1.6) TZ3908AAAO43 (48/5/7/2.0x1.6, AEC-Q200)

DIALOG

Application	Chips	TST P/N
BLE	DA14690	TZ3373C (32M/2.0x1.6)

CYPRESS

Application	Chips	TST P/N
BLE + BT	CYW20819/20820 Automotive CYW20819/20820 Automotive CYW20819/20820 Automotive CYW920835	TZ3406A (32.768K/2.0x1.2) TZ2612C (24Mhz/3.2x2.5) TZ3573A (24Mhz/2.0x1.6) TZ3406A
WiFi+BT	CYW43012	TZ1988B (37.4MHz/2.0x1.6)
Infineon		TZ4148BAAC62

REALTEK

Application	Chips	TST P/N
Wi-Fi	RTL8852A/RTL8852B/RTL8852C RTL873x Ameba	TZ3405D(40M/2.0x1.6) TZ2328BOAK43(26M/2.0x1.6) TZ3146BOAK13(26/3.2x2.5) TZ3405COAK43(40M/2.0x1.6) TZ2771DOAK13(40M/3.2x2.5)
LCD	RTD2188 RTD2188	TZ3925AAAKBX(14.318M/2.5x2.0) TZ1062BAAKBX (27M/2.5x2.0) TZ1062BAAKBX (27M/2.5x2.0) TZ3925AAAKBX(14.318M/2.5x2.0)
BLE	RTL8762E RTL8763E	TZ3600BAAK13(40M/3.2x2.5 7pF) TZ3812BAAK13(40M/3.2x2.5 9pF) TZ1181DAAK33(40M/2.5x2.0 7pF) TZ3340EAAK33(40M/2.5x2.0 9pF) TZ3877BAAK43(40M/2.0x1.6 7pF) TZ3926BAAK43(40M/2.0x1.6 9pF)
LTE	RTL9518	TZ3330A (26M/2.0x1.6) TZ3833BAAK32 (26M/2.5x2.0)

NVIDIA

Application	Chips	TST P/N
GPU	PG150/ 160 MX8715/ MX775AB	TZ1332B (27M/3.2x2.5) TZ1332B (27M/3.2x2.5) TZ1125E (25M/2.5x2.0) TZ3347F (52.083333M/2.0x1.6) TZ1332EAAH15 (27M/18pF/3.2x2.5) TZ2513BA0135 (38.4M/8pF/2.5x2.0)
Nvidia		TW0653BAAH30 TZ4139DA6245 TZ1332EAAH15

MICROCHIP

Application	Chips	TST P/N
IOT	R30_LoRa	TZ2486E (16M/2.0x1.6)
BT	BT/IS208x	TZ3077C (16M/3.2x2.5)
WIFI	Rio2	TZ3405F (40M/2.0x1.6)
Infrastructure	MX55/MX57 MX77	TZ3208A (50M/2.0x1.6) TZ3209A (39.0625M/2.0x1.6) TZ3314A (25M/2.5x2.0) TZ3211A (26.041666M/2.5x2.0) TZ3346F (51.840000M/2.0x1.6) TZ3347F (52.083333M/2016) TZ3348F (52.000000M/2.0x1.6) TZ3352F (50.000000M /2.0x1.6) TZ3353F (53.7109375M/2.0x1.6) TZ3355F (62.500000M/2.0x1.6) TZ3354F (66.666666M/2.0x1.6) TZ3346G (51.840000M/2.0x1.6) TZ3347G (52.083333M/2.0x1.6) TZ3348G (52.000000M/2.0x1.6) TZ3353G (53.7109375M/2.0x1.6)
Infrastructure	MX77 MX553/MQC202C MQC 102	TZ3355G (62.500000M/2.0x1.6) TZ3354G (66.666666M/2.0x1.6) TZ3445F (35.328M/2.0x1.6) TZ3265F (54Mhz/2.0x1.6) TZ3190DAAF40 (80M/2.0x1.6)
MX85 series module		TZ3954CAAF80 (80M/1.2x1.0)
WBZ451HPA		TZ3951CAAF40 (16M/2.0x1.6)
Moduel		TZ4001AAAF80 (120M/1.2x1.0) TZ3999AAAF80 (100M/1.2x1.0) TZ3996AAAF80 (76.8Mhz/1.2x1.0)

MARVELL

Application	Chips	TST P/N
WIFI	E2110/88F3900 A3900 SC5,SCBT/88W9068 (8x8) & 88W9042 (4x4) Sky-Hawkb / 88w9098	TZ2529C (50M/3225) TZ3227B (25M/3225) TZ3190A (80M/2016) TZ3420C (40M/2016)
AI	Mozek!	TZ2477C (25MHz/2520) TZ1006A (32.768K/3215)
Ethernet	Arrowhead 88E2180 88Q1010 88Q2112 88Q5050 88X5113 88X7120/ 88X7121	TW0476D (156.25/7050) TZ3403A (50M/1612) TZ1865D (50 M/3225) TZ2529D (50M/3225) TW0537A (156.25MHz/7050) TW0527C (50M/7050) TZ2724C(25M/2016) TZ2724C(25M/2016) TZ2724C(25M/2016) TZ2724C(25M/2016) TW0497A TW0497A
PHY	88X3540 88X3580 Puma LIO3 development board	TW0162C (156.25/7050) TZ3463B (25/3225) TW0162C (156.25/7050) TW0162C (156.25/7050) TZ3463B (25/3225) TW0390D (25/3225) TW0162C (156.25/7050) TZ3463B (25/3225) TW0390D (25/3225) TWLP0001A (156.25MHz/5032) TZ3628CAAE12 TZ3628CAAE12 (50MHz 12pF 3225 xtal)
Ethernet		TW0629AAAE42 TZ3858BAAE02 (50MHz 19pF)
Auto Ethernet	Arcus	TZ3744AAAE44 (52.083333/2016)
USB to UART IC using		TZ1627E TZ3478A TW0658AAAQ42
Gigabyte design transferred to our VES		TW0381EAAE30 TW0672CAAE40
Networking		TZ3858BAAE02
Server		TW0658AAAQ42 TW0497A TW0692AAAE40 TW0658BAAE40
AEC		TBD 156 25MHz XO
Flash Storage		TW0672DAAE40 TW0732AAAE30 TZ1444D TZ3538DAAE31

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