

Model	Description	position	manufacture
WKTMO07-B01	Metal shrapnel connector_3.4*0.9*1.8mm_ work height1.25mm	ANT1101, ANT1102, ANT1103	Shun Jie
PAN00-01180-0305	Metal shrapnel connector_3.4*0.9*1.8mm_ work height1.25mm		LCN
818006031	SMD shrapnel_work height1.25mm		Shenzhen electrically connected Precision Technology Co., Ltd.
MM8430-2610	RF Test Socket	J101	MURATA
818000001	RF Test Socket		Shenzhen electrically connected Precision Technology Co., Ltd.
CAH11-08163-SF00	Storage deck H1.6mm Flip	J601	LCN
09-0821125	Storage		Letter to pass
KM3308465B1R	Storage		KeiRaKu
TFS07-8K30000	Storage deck H1.5mm Flip		SinGeen
SM012-15112A6A	SIM Deck H1.5mm Board No	J602, J603	Shun Jie
CAF99-06150-S127	SIM Deck H1.5mm Board No		LCN
AJ004-46163A01	Headphone	J801	Shun Jie
11-0521119	Headphone		Shun Jie
PAN30-03544-SF11	Battery connector 3Pin 5.4H Late	J501	LCN
BV026-54123A31	Battery connector 3pin 5.4H Side		Shun Jie
BL509-06G31-TAH1	FPC connector 6pin Single	J902	Shen, Seiko
FH34SRJ-6S-0.5SH(50)	FPC connector 6PIN Double-		Hirose
UB005-16326A55	IO connector MicroUSB Shen	J1201	Shun Jie
UAF95-05164-1522	IO connector MicroUSB Shen		LCN
MPL2016S2R2MHT	Multilayer Inductor 2.2uH 2016(0806	L1001	Sunlord
LQM2MPN2R2NG0L	Power		MURATA
SPH252012H2R2MT	Winding	L501	Sunlord
LVH252A12-2R2M-N	Winding		Chilisin
SPH252010HR68NTY01	Winding	L502, L503	Sunlord
LQH2HPNR68MGRL	Winding		MURATA
MPIT252010-R68M-LF	Power		MICROGATE
LQG15HS7N5J02D	Multilayer	L114	MURATA
MGCI1005T7N5JT-LF	Multilayer		MICROGATE
SDCL1005C7N5JTF	Multilayer		Sunlord
CIH05T56NJNC//HK100556NJ-T//MGCI1005T56NJT-LF//SDCL1005C56NJTF	Multilayer Inductor_56nH_0402_150mA	B703, B704	Samsung, TAIYO YUDEN, MICROGATE, Sunlord
HK10051N0S-T	Inductor 1.0nH (0402, +/-	L109, L202, L213	TAIYO YUDEN
SDCL1005C1N0STF	Multilayer		Sunlord
MGCI1005T1N0ST-LF	Multilayer		MICROGATE
LQG15HS1N0S02-(D/J)	Inductor 1.0nH (0402, +/-		MURATA
HK100539NJ-T//LQG15HS39NJ02D//MGCI1005T39NJT-LF//SDCL1005C39NJTF	Multilayer Inductor_39nH(0402_150mA +/-5%)	C1104, C1113, L103	Samsung, TAIYO YUDEN, MICROGATE, Sunlord
HK100582NJ-T//MGCI1005T82NJT-LF//SDCL1005C82NJTF	Inductor_82nH(0402, +/-5%)	L1103	Samsung, TAIYO YUDEN, MICROGATE, Sunlord

HK10054N3S-T	Inductor 4.3nH(0402, +/-	L205	TAIYO YUDEN
MGCI1005T4N3ST-LF	Multilayer		MICROGATE
SDCL1005C4N3STF	Multilayer		Sunlord
LQG15HN4N3S02-(D/J)	Inductor 4.3nH(0402, +/-		MURATA
CIH05T4N3SNC	Multilayer		Samsung
HK10052N7S-T	Inductor 2.7nH(0402, +/-	L107	TAIYO YUDEN
MGCI1005T2N7ST-LF	Multilayer		MICROGATE
CIH05T2N7SNC	Multilayer		Samsung
LQG15HS2N7S02-(D/J)	Inductor 2.7nH(0402, +/-		MURATA
SDCL1005C2N7STF	Multilayer Inductor2.7nH(0402 0.4A		Sunlord
HK100512NJ-T	Inductor 12nH (0402, +/-	L101, L105	TAIYO YUDEN
SDCL1005C12NJTF	Multilayer		Sunlord
LQG15HS12NJ02-(D/J)	Inductor 12nH (0402, +/-		MURATA
MGCI1005T12NJTF-LF	Multilayer		MICROGATE
HK10052N2S-T	Inductor 2.2nH(0402, +/-	C1112, L106	TAIYO YUDEN
MGCI1005T2N2ST-LF	Multilayer		MICROGATE
CIH05T2N2SNC	Multilayer		Samsung
LQG15HS2N2S02-(D/J)	Inductor 2.2nH(0402, +/-		MURATA
SDCL1005C2N2STF	Multilayer Inductor2.2nH(0402 0.4A		Sunlord
HK1005R10J-T//LQG15HSR10J02-(D/J)//SDCL1005CR10JTF	Inductor_100nH(0402, +/-5%)	L1104, L801	Samsung, TAIYO YUDEN, MICROGATE, Sunlord
HK10051N8S-T	Multilayer Chip Inductor, 1.8nH, 300mA, 0.12ohm, ±0.3nH, 0402	L211	TAIYO YUDEN
SDCL1005C1N8STF	Multilayer Inductor1.8nH(0402 0.4A		Sunlord
LQG15HS1N8S02-(D/J)	Inductor 1.8nH(0402, +/-		MURATA
HK10055N6S-T	Chip Inductor, 5.6nH, 430mA, 0.2	C1103, L108, L1105, L111, R121	TAIYO YUDEN
SDCL1005C5N6STF	Multilayer		Sunlord
LQG15HS5N6S02-(D/J)	Multilayer Chip Inductor, 5.6nH, 300mA, 0.2		MURATA
LQP03TG2N0B02D	Multilayer	L214	MURATA
MGCI0603H2N0ST-LF	Multilayer		MICROGATE
SDCL0603C2N0STDF	Multilayer		Sunlord
TCTAL0J107M8R	Capacitance_100uF(Tantalum capacitors 3216L-	C112	ROHM
C0805X5R106K6R3NPH//CC0805KKX5R5BB106//CL21A106KQFNNNE//GRM219R60J106KE19-(D/J)//JMK212BJ106KG-T	Capacitance_10uF(0805-X5R-6.3V-K)	C804, C805	EYANG, Yageo, Samsung, MURATA, TAIYO YUDEN
C0603X5R105K160NT//CC0603KRX5R7BB105//CL10A105K08NNC//EMK107BJ105KA-T//GRM188R61C105KA12D	Capacitance_1uF_0603_X5R_16V_K	C519	EYANG, Yageo, Samsung, TAIYO YUDEN, MURATA
C0603X5R106M6R3NT//CL10A106MQ8NNNC//GRM188R60J106ME47D//JMK107BJ106MA-T	Capacitance_10uF_0603_X5R_6.3V_M	C1009, C1011, C1013, C426, C427, C428, C539, C520, C521, C522, C523, C524, C525, C722	EYANG, Samsung, MURATA, TAIYO YUDEN

C0603X5R475K6R3NTD//CC0603KRX5R5BB475//CL10A475KQ8NNNC//GRM188R60J475KE19-(D/J)//JMK107BJ475KA-T	Capacitance_4.7uF (0603-X5R-6.3V-K)	C425, C601, C604, C605, C715	EYANG, Yageo, Samsung, MURATA, TAIYO YUDEN
C0603X5R226M6R3NRK//CC0603MRX5R5BB226//CL10A226MQ8NRNE//GRM188R60J226MEA0D//JMK107BBJ226MA-T	Capacitance_22uF_0603_X5R_6.3V_M	C517	EYANG, Yageo, Samsung, MURATA, TAIYO YUDEN
C0402X5R225M6R3NT//CL05A225MQ5NNNC//GRM155R60J225ME15D//JMK105_BJ225MV-F	Capacitance_2.2uF_0402_X5R_6.3V_M	C1002, C1132, C1134, C423, C424, C501, C606, C815	EYANG, Yageo, Samsung, MURATA, TAIYO YUDEN
0402N560J500//CC0402JRNPO9BN560//GRM1555C1H560JZ01D	Capacitance_56pF(0402-COG-50V-J)	C106	Walsin, Yageo, MURATA
0402X224K100//C0402X5R224K100N-(T/Y)//CC0402KRX5R6BB224//GRM155R61A224KE19D//LMK105BJ224KV-F	Capacitance_220nF(0402-X5R-10V-K)	C1133	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N1ROC500//C0402COG1R0C500N-(T/Y)//CC0402CRNP09BN1R0//GRM1555C1H1ROCZ01D//UMK105CG010CW-F	Capacitance_1.0pF(0402-COG-50V-C)	C104, R123	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402X104K100//C0402X5R104K100N-(T/Y)//CC0402KRX5R6BB104//GRM155R71A104KA01-(D/J)//LMK105BJ104KV-F	Capacitance_100nF(0402-X5R-10V-K)	C1001, C1003, C1004, C1005, C1012, C1107, C111, C1125, C1127, C401, C402, C403, C404, C407, C408, C409, C410, C431, C502, C508, C529, C530, C537, C610, C614, C615, C617, C627, C812, C813, C904	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N180J500//C0402COG180J500N-(T/Y)//CC0402JRNPO9BN180//GRM1555C1H180JZ01D//UMK105CG180JV-F	Capacitance_18pF(0402-COG-50V-J)	C237, C531, C532	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
C0402X5R105K6R3N-(T/Y)//CC0402KRX5R5BB105//CL05A105KQ5NNNC//GRM155R60J105KE19D//JMK105BJ105KV-F	Capacitance_1uF(0402-X5R-6.3V-K)	C1014, C1129, C1136, C1140, C1201, C232, C233, C252, C256, C405, C406, C411, C412, C413, C419, C420, C421, C422, C504, C506, C507, C526, C527, C528, C603, C616, C709, C710, C717, C718, C808, C814, C903, C905, C906	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
CC0402KRX5R6BB474//C0402X5R474K100NYN//GRM155R61A474KE15D//LMK105BJ474KV-F	Capacitance_470nF(0402-X5R-10V-K)	C250, C251, C253, C254, C255, C257	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
C0402COG150J500N-(T/Y)//CC0402JRNPO9BN150//GRM1555C1H150JZ01-(D/J)	Capacitance_15pF(0402-COG-50V-J)	C1105	EYANG, Yageo, MURATA

C0402X7R472K500NY//GRM155R71H472KA01-(D/J)//UMK105BJ472KV-F	Capacitance_4.7nF(0402-X7R-50V-K)	C1126	EYANG, MURATA, TAIYO YUDEN
0402N220J500//C0402COG220J500N-(T/Y)//CC0402JRNPO9BN220//GRM1555C1H220JZ01-(D/J)//UMK105CG220JV-F	Capacitance_22pF(0402-COG-50V-J)	C107, C109, C110, C1159	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N330J500//C0402COG330J500N-(T/Y)//CC0402JRNPO9BN330//GRM1555C1H330JZ01-(D/J)//UMK105CG330JV-F	Capacitance_33pF(0402-COG-50V-J)	C105, C1102, C225, C706, C707, C712, C713, C714, C719, C721, C728, C729, C801, C802	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N101J500//C0402COG101J500N-(T/Y)//CC0402JRNPO9BN101//GRM1555C1H101JZ01-(D/J)//UMK105CG101JV-F	Capacitance_100pF(0402-COG-50V-J)	C1128, C1131, C1137, C705, C711, C720	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N100J500//C0402COG100D500N-(T/Y)//CC0402JRNPO9BN100//GRM1555C1H100JZ01-(D/J)//UMK105CG100JV-F	Capacitance_10pF(0402-COG-50V-J)	R209	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402B221K500//C0402X7R221K500N-(T/Y)//CC0402KRX7R9BB221//GRM155R71H221KA01-(D/J)	Capacitance_220pF(0402-X7R-50V-K)	C119, C230, C231	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402B102K500//C0402X7R102K500N-(T/Y)//CC0402KRX7R9BB102//GRM155R71H102KA01-(D/J)//UMK105BJ102KV-F	Capacitance_1nF(0402-X7R-50V-K)	C1139, C1163, C503, C738, C739	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402B103K160//C0402X7R103K160N-(T/Y)//CC0402KRX7R7BB103//EMK105BJ103KV-F//GRM155R71C103KA01-(D/J)	Capacitance_10nF(0402-X7R-16V-K)	C1130	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
0402N4R7C500//C0402COG4R7C500N-(T/Y)//CC0402CRNPO9BN4R7//GRM1555C1H4R7CZ01-(D/J)//UMK105CG4R7CW-F	Capacitance_4.7pF(0402-COG-50V-C)	C243, C244, R122	Walsin, EYANG, Yageo, MURATA, TAIYO YUDEN
C0402X5R475M6R3NTN//CL05A475MQ5NRNC//GRM155R60J475ME87D//JMK105BBJ475MV-F	Capacitance_4.7uF_0402_X5R_6.3V_M	C505, C602	EYANG, Samsung, MURATA, TAIYO YUDEN
C0201X5R104K100NT//CC0201KRX5R6BB104//GRM033R61A104KE15D	Capacitance_100nF_0201_X5R_10V_K	C415, C416, C417, C418, C429, C430	EYANG, Yageo, MURATA
NCP15WF104F03RC	Thermistors_NTC Thermistor, 100K(1%,	RT201	MURATA
SDNT1005X104F4250FTF	Thermistors_NTC 100K 040		Sunlord
CN24JTN0//YC124-JR-070RL	Exclusion_OR_8P4R_1/16W_J	RR901, RR902, RR903	Yageo

MNR02MRAPJ00//YCC122-JR-070RL	Exclusion_OR_0402× 2 1/16W J	U1201	ROHM, Yageo
MCR10EZHFRLR200//RC2012FR200CS//RL0805FR-7W0R2L//RL10FTNR200	Current sense resistor_0.2R (1% 0805 1/4W)	R526	ROHM, Samsung, Yageo,
RC0603JR-070RL//RC1608J000CS//RM06JTN0	Resistance_OR(0603-0.1W- J)	B705, B706, R107, R402, R504, R601	Yageo, Samsung
RC0402FR-0714K7L//RC1005F1472CS//RM04FTN1472	Resistance_14.7k(0402- 0.0625W-F)	R1011	Yageo, Samsung
RC0402FR-07330KL//RM04FTN3303	Resistance_330K(0402- 0.0625W-F)	R523	Yageo
RC0402JR-07470KL//RC1005J474CS//RM04JTN474	Resistance_470k(0402- 0.0625W-J)	R804	Yageo, Samsung
RC0402FR-0739KL//RC1005F393CS//RM04FTN3902	Resistance_39K_(0402_1/1 6W_1%)	R524	Yageo, Samsung
RC0402JR-073K3L//RM04JTN332	Resistance_3.3K(0402- 0.0625W-J)	R525	Yageo
RC0402FR-072KL//RC1005F202CS//RM04FTN2001	Resistance_2K_0402_1/16W _F	R231	Yageo, Samsung
RC0402FR-0782KL//RC1005F823CS//RM04FTN8202	Resistance_82K(0402- 0.0625W-F)	R1003	Yageo, Samsung
RC0402FR-078K2L//RC1005F822CS//RM04FTN8201	Resistance_8.2K_0402_1/1 6W_F	R617, R618	Yageo, Samsung
RC0402FR-075K1L//RC1005F512CS//RM04FTN5101	Resistance_5.1K_0402_1/1 6W_F	R303	Yageo, Samsung
RC0402JR-0733RL//RC1005J330CS//RM04JTN330	Resistance_33R(0402- 0.0625W-J)	R216	Yageo, Samsung
RC0402JR-070RL//RC1005J000CS//RM04JTN0	Resistance_OR(0402- 0.0625W-J)	B801, B802, L1101, R1001, R1006, R110, R1102, R1105, R1109, R1121, R1122, R1123, R1124, R1125, R115, R1204, R225, R227, R230, R233, R234, R237, R239, R240, R241, R250, R401, R505, R507, R510, R511, R512, R528, R530, R605, R606, R607, R608, R609, R632, R633, R801, R807, R811, R816, R817, R818, R901, R902, R904, R905	Yageo, Samsung
RC0402JR-071KL//RC1005J102CS//RM04JTN102	Resistance_1K(0402- 0.0625W-J)	R104, R113, R114, R1202, R1203, R1205, R309, R310, R503, R703, R705, R706, R709	Yageo, Samsung
RC0402JR-0710KL//RC1005J103CS//RM04JTN103	Resistance_10K(0402- 0.0625W-J)	R106	Yageo, Samsung

RC0402JR-07100KL//RC1005J104CS//RM04JTN104	Resistance_100K(0402-0.0625W-J)	R1008, R1009, R810, R903	Yageo, Samsung
RC0402JR-071K5L//RC1005J152CS//RM04JTN152	Resistance_1.5K(0402-0.0625W-J)	R704, R707, R708	Yageo, Samsung
RC0402JR-0747KL//RC1005J473CS//RM04JTN473	Resistance_47K(0402-0.0625W-J)	R630, R803	Yageo, Samsung
RC0402JR-07100RL//RC1005J101CS//RM04JTN101	Resistance_100R(0402-0.0625W-J)	R620, R631, R634, R635, R805, R806	Yageo, Samsung
RC0402JR-0724RL//RC1005J240CS//RM04JTN240	Resistance_24R(0402-0.0625W-J)	R208, R215	Yageo, Samsung
RC0402JR-0724KL//RC1005J243CS//RM04JTN243	Resistance_24K(0402-0.0625W-J)	R105	Yageo, Samsung
RC0402JR-072K2L//RC1005J222CS//RM04JTN222	Resistance_2.2K(0402-0.0625W-J)	R305, R306, R307, R308	Yageo, Samsung
RC0402JR-0751RL//RC1005J510CS//RM04JTN510	Resistance_51R(0402-0.0625W-J)	R213	Yageo, Samsung
MCR006YRTJ000//RC0201JR-070RL//WR02X000PAL	Resistance_0R_0201_1/20W J	R610, R612, R615, R619	ROHM, Yageo, Walsin
MCR006YRTF1501//RC0201FR-071K5L//WR02X1501FAL	Resistance_1.5K_0201_1/20W F	R304	ROHM, Yageo, Walsin
MCR006YRTF2430//RC0201FR-07243RL//WR02X2430FAL	Resistance_243R_0201_1/20W F	R603, R604	ROHM, Yageo, Walsin
BK1005HM102-T	Bead inductors (0402)	B720, B721, B803, B804, B805, B806, B807	TAIYO YUDEN
GZ1005D102TF	Bead(0402, 1000+/-25%@100MHZ, 100mA, DCR		Sunlord
MGGB1005M102HT-LF	Beads 1000R/100MHz 0402		MICROGATE
BLM15BD102SN1D	Beads 1000R/100MHz 0402		MURATA
ESD9P5.0ST5G	TVS Single Unidirectiona	D1202, D1205	Onsemi
ESD9X5VL-2/TR	TVS Single Unidirectiona		Will
ESD9X5V-2/TR	TVS_Single_Unidirectiona 1 5V 50pF	D1201, D1203, D1206, D707, D708	Will
DF2S6.8FS	1 Channel ESD TVS 6.8V Unidirectional signal		Toshiba
PESDNC9D5VU	TVS Single Unidirectiona		Prisemi
DTESD5VOLED02	TVS Single Unidirectiona		ChangJiang Elec Tech
ESD9X5.0ST5G	TVS Single Unidirectiona		Onsemi
AVLC5S02050	Varistor_5.5V_0402	D701, D702, VCR1201, VCR802, VCR803, VCR804	AMOTECH
SDV1005E5R5C500NPTF	Varistor 5.6V 0402		Sunlord
ICVS0505500FR	Varistor 5.6V 0402		ICT
SFXG50UZ502	Bidirectional EMI filter stopband W900 2016Single	U204	Wisol
RFBLN2012090BM5T25	Electromagnetic interference differential	U106	Walsin

DLU-2012-12GS1-B3	Electromagnetic interference differential		Mag. Layers
7L26002015	Crystal 26M 2ppm 2.8V 25	U1103	TXC
X1E000021043400	Crystal 26M 10ppm 7.4pF	X201	Epson Toyocom
TZ1689A	Crystal 26M 10ppm 7.3pF		TST
X3S026000B71HZ-HPR	Crystal 26M 10ppm 7.2pF		H. ELE
7M26000028	Crystal 26M 7.5PF 3225		TXC
SSP-T7-F	Crystal 32.768K 20ppm 12	X501	SII
Q13MC1461000200	32.768KHz		Epson Toyocom
MS3V-T1R32.768kHz12.5pF+/-20ppm	32.768KHz Crystal(12.5pF-20ppm)		Micro Crystal
Q13MC1462000200	Crystal 32.768K 20ppm 12		Epson Toyocom
2N7002LT1G	NMOS 115mA SOT-23	Q502	Onsemi
L2N7002LT1G	NMOS 225mW 115mA SOT-23		LRC
2N7002	NMOS 225mW SOT23		ChangJiang Elec Tech
PT236T30E2H	PNP Transistor 2W SOT23	U501	Prisemi
WPT2F42	PNP Transistor 2W SOT-		Will
EHP-C04/NT21A-P01/TR	Flash	Q1001, Q1003	Everlight
LTPL-C064WD-WA	Flash		Liteon
PZ3D4V2H	Zener	D501, D503	Prisemi
MM3Z5V1-2/TR	Zener		Will
RB551V-30	Schottky diodes 0.5A SOD-323	D504, D505, D506, D507	ChangJiang Elec Tech
RB551VM-30TE17	Schottky		ROHM
RB520S-30FJTE61	Schottky	D1207	ROHM
LRB520S-30T1G	Schottky		LRC
RB520S-30	Schottky		ChangJiang Elec Tech
AP3216C	Close to the light-sensitive light sensor	U803	Dun nan
BMA220	3-Axis acceleration	U801	Bosch
SKY13373-460LF	RF switch SP3T	U105	Skyworks
BGU7005	RF LNA 1575	U1108	Philips
AR8159	RF LNA 1575		Airoha
RDALN16	RF LNA 1575MHz (GPS)		RDA
UN06B0100L	RF Power	U203	Panasonic
AP5200Q	RF Power Amplifier_Quad band(850/900/1800/1900)	U101	Airoha
KTD265EJH-TR	Flash drive chip	U1001	Kinetic
H9TP32A4GDMCPR-KDM	MCP 4GB-eMMC 4Gb-LPDDR2	U601	Hynix
MT6627N	WIFI-BT-FM-GPS Four	U1101	MediaTek
MT6323GA	Power management chip	U502	MediaTek
MT6166A	RF	U201	MediaTek
MT6572A/X	Baseband chip WCDMA	U301	MediaTek
HQA260AJA 01 02	A260 BB+NEW SHIELDING HA	SH1206	Haitong newsletter
HQA260AJA 02	A260 RF SHIELDING HAITON	SH1208	Haitong newsletter
HQA260AJA 03	A260 WIFI SHIELDING HAIT	SH1203	Haitong newsletter
HQA350AJA 04	A260 AUDIO SHIELDING HAI	SH1205	Haitong newsletter
A260 MB T PCB V2.0	A260 Motherboard	PCB	Zhi hao
A260 MB T PCB V2.0	A260 Motherboard		Elec & Eltek
SFDG75BQ102	SAW filter GPS 1575MHz	U1002	Wisol
SAFEB1G57KE0F00	SAW filter GPS 1575MHz		MURATA
TA0757A	SAW filter 1500 RX		TST
C0402COG270J500N-(T/Y)//GRM1555C1H270JZ01D-(D/J)	Capacitance_27pF(0402-COG-50V-J)	D904, D905, D906	EYANG, MURATA