


Universal Dongle										14.06.2016	REV:	5.0.0
Template:		KEG										
Currency:												
Project name:		R10000										
Expected volume:												
Year 1												
Year 2												
Year 3												
GrundfosPart number	Description	Reference	Manufacturer Name	Qty acc to BOM	Mfg Part Number	Value	Tolerance					
00L65027	SMD CAP NPO 0402 0p8F 0.1pF	C71 C75-76	muRata/GRM1555C1HR80BZ01D	3		0p8F	0.1pF					
00L61000	SMT RESIST 0402 1% 63MW 50V E0 0R	R14-15	Yageo/RC32	2		0R	0.01					
00L61030	SMT RESIST 0402 1% 63MW 50V E6 100K	R6	Yageo/RC32	1		100K	0.01					
00L65550	SMD CAP X7R 0402 16V 100nF 10%	C62 C64 C70 C85 C88 C91 C93 C95-96	muRata/GRM155R71C104KA88D	9		100nF	0.1					
00L61020	SMT RESIST 0402 1% 63mW 50V E4 107K	R1	Yageo RC32	1		107k	0.01					
00L61020	SMT RESIST 0402 1% 63MW 50V E5 10K	R8 R18 R29 R55-56 R60 R68-72	Yageo/RC32	11		10K	0.01					
00L65540	SMT CAP X7R 0402 25V E5 10nF 10%	C1 C3	Phycomp/2238-917-15636	2		10nF	0.1					
00L61131	SMT RESIST 0402 1% 63MW 50V E6 150K	R3	Yageo/RC32	1		150K	0.01					
00L61053	SMT RESIST 0402 1% 63MW 50V E3 150R	R62 R64	Yageo/RC32	2		150R	0.01					
00L65534	SMT CAP NPO 0402 50V E2 15PF 5%	C78-79 C94	muRata/GRM1555C1H150JZ01D	3		15pF	0.05					
00L61234	SMD CRYSTAL 16.000MHz 12pF 3.2X2.5MM	X1	HONG KONG CRYSTALS/C7M1600012ACSHFO-RE02	1	C7M1600012ACSHFO-RE02	16MHz						
00L61054	SMT RESIST 0402 1% 63MW 50V E3 180R	R59	Yageo/RC32	1		180R	0.01					
00L61010	SMT RESIST 0402 1% 63MW 50V E4 1K	R24 R73	Yageo/RC32	2		1K	0.01					
00L61026	SMT RESIST 0402 1% 63MW 50V E7 1M	R10	Yageo/RC32	1		1M	0.01					
00L65502	SMT CAP NPO 0402 50V E1 1.5PF 0.25PF	C72	muRata/GRM1555C1H1R5CZ01D	1		1p5F	0.25pF					
00L65508	SMT CAP X5R 0402 E7 10V 1uF 10%	C2 C24 C69 C80-83 C92	muRata/GRM15	8		1uF	0.1					
00L61139	SMT RESIST 0402 1% 63MW 50V E6 220K	R2	Yageo/RC32	1		220K	0.01					
00L61003	SMT RESIST 0402 1% 63MW 50V E3 220R	R61	Yageo/RC32	1		220R	0.01					
98145147	SMT CAP COG 0402 50V 22pF 5%	C31	muRata/GRM15	1		22pF	0.05					
00L65020	SMT CAP X7R 1206 E8 10V 22UF 10%	C86-87 C89	muRata/GRM31CR71A226KE15L	3		22uF	0.1					
00L61142	SMT RESIST 0402 1% 63MW 50V E6 270K	R11	Yageo/RC32	1		270K	0.01					
00L61028	SMT RESIST 0402 1% 63MW 50V E4 3K3	R16-17	Yageo/RC32	2		3K3	0.01					
98145693	3 PIN PICOBLADE HEADER	J2	MOLEX/53261-0371	1	53261-0371	53261						
00L61036	SMT RESIST 0402 1% 63MW 50V E1 3R	R7 R9 R12-13	Yageo/RC32	4		3R	0.01					
00L65337	SMT CAP X5R 0603 10V E7 4.7uF 10%	C29 C32-33 C84	Kemet/CD603C475K8PAC	4		4u7F	0.1					
00L61155	SMT RESIST 0402 1% 63MW 50V E6 560K	R4	Yageo/RC32	1		560K	0.01					
98145695	5 Pol Micro-USB "B" Receptacle	J1	Molex/473460001	1	473460001	5 Pol						
00L65504	SMT CAP NPO 0402 50V E1 5.6PF 0.5PF	C73-74 C90	muRata/GRM1555C1H5R6DZ01D	3		5p6F	0.5pF					
98145092	SMD IC 2-input AND 74AHC1G08 SOT353	U18	NXP/74AHC1G08GW	1	74AHC1G08	74AHC1G08						
98145145	SMT RESIST 0402 1% 63MW 50V 806R	R5	Yageo/RC32	1		806R	0.01					
	SMD Ceramic antenna 2450MHz	ANT4	Johanson/2450AT42A100E	1	2450AT42A100E	2.450GHz						
00L69541	SMT RADIO TRANSCEIVER AT86RF231 2G4HZ ZI	U16	Atmel/AT86RF231	1	AT86RF231	AT86RF231						
00L68054	SMD TRANSISTOR NPN BC848W	Q1	Philips/BC848W	1	BC848W	BC848W						
98863891	SMD IC USB Low capacitance ESD protection Array CM1230-02CP	U6	On-Semi/CM1230-02CP	1	CM1230-02CP	CM1230-02CP						
98144056	SMD IC Integrated load switch FDG6331L	U2	Fairchild/FDG6331L	1	FDG6331L	FDG6331L						
00L67116	SMD FILTER BLM18E 330R 500mA 0603(cu351)	L5	muRata	1		BLM18EG331	0.25					
98146747	SMD IC USB UART FT232RQ	U5	FTDI/FT232RQ	1	FT232RQ	FT232RQ						
98145164	SMD INDUCTOR 2.2uH 1.0A LQM2HPN J0	L3	Murata/LQM2HPN2R2MJ0	1	LQM2HPN2R2MJ0	2.2uH	0.2					
00L67446	SMT Inductor 0402 4n3H +0.1nH LQP15	L1-2 L4	muRata/LQP15MN4N3B02	3	LQP15MN4N3B02	4n3H	+0.1nH					
98105389	SMD IC iPOD Authentication Coprocessor 2.0C	U4	Apple/MFI33753959	1	MFI33753959	MFI33753959						
98145150	SMT LED Angled Green 27-21/GHC-YR1S2M/3C	D1-2	EVERLIGHT/27-21/GHC-YR1S2M/3C	2	27-21/GHC-YR1S2M/3C	LED GREEN						
98145162	SMT LED Infrared Sideded SFH 4645	D5	Osram/SFH 4645	1	SFH 4645	IR						
98145170	SMD 32.768kHz Crystal Oscillator	X5	Epson Toyocom / SG-3030LC	1	SG-3030LC	SG-3030LC	23ppm					
98145739	Bluetooth module w. integrated antenne and iOS support	BT2	ST / SPBT2632C2A.AT2	1	SPBT2632C2A.AT2	SPBT2632C2A.AT2						
98145680	SMD TACT SWITCH, Side Push 4.3X3.6X1.4MM	S1	Diptronics/IPTG14K-A-V-R	1	IPTG14K-A-V-R	IPTG14K-A-V-R						
98145605	SMD IC Power Management Unit / Battery charger TPS65721	U3	Texas Instruments / TPS65721	1	TPS65721	TPS65721						
00L61920	IR-Receiver TSOP77338	U7	Vishay/TSOP77338TR	1	TSOP77338TR	TSOP77338TR						
98145588	SMD IC Micro 512K Flash, 32k RAM, 8K Dataflash R5F100GLANA	U1	Renesas/R5F100GLANA	1	R5F100GLANA	R5F100GLANA						
98145739	Li-Ion rechargeable battery pack w. Protection circuit	BAT1	SHENZHEN YKLIK/WKDM3412B.443	1	WKDM3412B.443	WKDM3412B.443						

Basic Material No.:			Drawer	Date
Dimension of basic material:			KEG	14-06-2016
Type of basic material:			Approved	Date
			ERE	14-06-2016
			Replaced	
				4.0.0
			Replaced by	
				5.0.0
			Draving No	
				<b>98046401</b>
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			1	1

Part Name  
  
Partlist  
**Universal Dongle f. R10000**

Update / 14-06-2016-KEG  
Update / 23-02-2015-KEG  
1092532 / 09-05-2012-KPE  
Chg. Note / Date - Init