High security Bluetooth® semiconductors with expandable memory

Dialog's SmartBond™ DA14682 and DA14683 for Smart Home, Industrial and Wearable devices is the worlds' first single-chip solution, whilst meeting superior security standards and quality. Bluetooth 5 and Bluetooth mesh are supported in these highly integrated System-on-Chip (SoC) devices and include a number of top of the line features and cutting-edge security supporting both consumers and developers.

SmartBond™ DA14682 and DA14683

- High-security
- Bluetooth 5 solution
- Expandable memory
- Size 2.3 x 2.6 x 0.95 mm (CapChip)
- Output I/F I2C / SPI

Murata starter kit

Our passive starter kit supports the reference design of Dialog DA14682 & DA14683 with our range of capacitors, inductor, and crystal.

Our latest kit will provide you with a comprehensive set of components with supporting part information to give everything you need to support your design when implementing DA14682 or DA14683.

- Packaged in passive components in collaboration with Dialog for performance maximization.
- Pack with everything you need to support your design.
- Optional components for small size application available.

Visit our reference design page

Get it now

EKSM-PDADA1A-KIT supporting DA14682/DA14683

https://go.murata.com/pdada1a















Dialog starter kit contents

Designator	Dialog		Murata				
	DA14682 AQFN vD DA14683 AQFN vD DA14683 WLCSP vE		Capacitor Inductor Timing Device (CRYSTAL)				
	Description	Quantity	Status	Description size mm (inch)	Description	Parts number	Kit Qty
C1, C10, C11	1.0uF, X5R, +/-10%, 6.3V	3	Option	0.6x0.3 (0201)	1.0uF, X5R, +/-20%, 6.3V	GRM033R60J105MEA2	30
C2, C3	4.7uF, X5R, +/-20%, 6.3V	2	Dialog Confirmed Option	1.0x0.5 (0402) 0.6x0.3 (0201)	4.7uF, X5R, +/-20%, 6.3V 4.7uF, X5R, +/-20%, 6.3V	GRM155R60J475ME47 GRM035R60J475ME15	20 20
C4, C5	10uF, X5R, +/-20%, 16V	2	Dialog Confirmed	1.6x0.8 (0603)	10uF, X5R, +/-20%, 16V	GRM188R61C106MA73	20
C6, C7, C8	4.7uF, X5R, +/-20%, 10V	3	Dialog Confirmed Option	1.0x0.5 (0402) 1.0x0.5 (0402)	4.7uF, X5R, +/-20%, 10V 4.7uF, X5R, +/-20%, 10V	ZRB15XR61A475ME01 GRM155R61A475MEAA	30 30
C9	100nF, X7R, +/-10%, 16V	1	Option Option	0.6x0.3 (0201) 0.6x0.3 (0201)	100nF, X6S, +/-10%, 16V 100nF, X5R, +/-10%, 16V	GRM033C81C104KE14 GRM033R61C104KE14	10 10
Z2, Z4	10pF, C0G(NP0), 50V	2	Option Option	0.6x0.3 (0201) 0.4x0.2 (01005)	10pF, C0G(EIA), 50V 10pF, C0G(EIA), 50V	GRM0335C1H100JA01 GRM0225C1H100JA03	20
L1	470nH, 1.2A, 60mΩ	1	Option	2.0×1.25	470nH, 1.8A, 50mΩ	LQM21PNR47MGH	10
Y1	CRYSTAL 16.000MHZ 10PF SMT	1	Dialog Confirmed Dialog Confirmed	2.0x1.6/HCR2016 1.6x1.2/MCR1612	CRYSTAL 32.0000MHZ* 6PF SMT CRYSTAL 32.0000MHZ* 6PF SMT	XRCGB32M000F2P29R0 XRCMD32M000FXQ52R0	10 10

^{*} It can be used for 16MHz.

