Dialog reference design kit

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

www.murata.com

In collaboration with dialog SEMICONDUCTOR

muRata INNOVATOR IN ELECTRONICS

Murata Electronics EU 2018 Ref.: DIALOG_FL_1

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	1.0x0.5 (0402)	4.7uF, X5R, +/-20%, 6.3V	GRM155R60J475ME47	20
			Option	0.6x0.3 (0201)	4.7uF, X5R, +/-20%, 6.3V	GRM035R60J475ME15	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	1.0x0.5 (0402)	4.7uF, X5R, +/-20%, 10V	ZRB15XR61A475ME01	30
			Option	1.0x0.5 (0402)	4.7uF, X5R, +/-20%, 10V	GRM155R61A475MEAA	30
C9	100nF, X7R, +/-10%, 16V	1	Option	0.6x0.3 (0201)	100nF, X6S, +/-10%, 16V	GRM033C81C104KE14	10
			Option	0.6x0.3 (0201)	100nF, X5R, +/-10%, 16V	GRM033R61C104KE14	10
Z2, Z4	10pF, C0G(NP0), 50V	2	Option	0.6x0.3 (0201)	10pF, C0G(EIA), 50V	GRM0335C1H100JA01	20
			Option	0.4x0.2 (01005)	10pF, C0G(EIA), 50V	GRM0225C1H100JA03	20
L1	470nH, 1.2A, 60mΩ	1	Option	2.0x1.25	470nH, 1.8A, 50mΩ	LQM21PNR47MGH	10
Y1	CRYSTAL 16.000MHZ 10PF SMT	1	Dialog Confirmed	2.0x1.6/HCR2016	CRYSTAL 32.0000MHZ* 6PF SMT	XRCGB32M000F2P29R0	10
			Dialog Confirmed	1.6x1.2/MCR1612	CRYSTAL 32.0000MHZ* 6PF SMT	XRCMD32M000FXQ52R0	10

* It can be used for 16MHz.