ISO 14443 **ISO 15693**

Philips' Contactless Reader Systems

	Reader ICs					Evaluation Systems			
Product Features	**MF RC500**	**MF RC530**	**MF RC531**	**SL RC400**	**CL RC632**	**MF EV700**	**MF EV800**	**SL EV400**	**SL EV900**
Operating distance typ. [mm]	100	100	100	100	100	75	75	75	up to 600
Antenna	-	-	-	-	-	yes	yes	yes	yes
FIFO depth [byte]	64	64	64	64	64	n.a.	n.a.	n.a.	n.a.
Host interface	8-bit parallel	8-bit parallel, SPI	8-bit parallel, SPI	8-bit parallel	8-bit parallel, SPI	USB	USB/R232	USB	RS232
RF Interface									
Analog interface	fully integrated	fully integrated	fully integrated	fully integrated	fully integrated	MF RC500	MF RC500	SL RC400	discrete
Carrier frequency [MHz]	13.56	13.56	13.56	13.56	13.56	13.56	13.56	13.56	13.56
Modulation	100% ASK	100% ASK	10% & 100% ASK	10% ASK	10% & 100% ASK	100% ASK	100% ASK	10% & 100% ASK	10% & 100% ASK
Baudrate ISO 14443 [kbit/s]	106	106/212/424/848	106/212/424/848	-	106/212/424/848	106	106	-	-
Baudrate ISO 15693 [kbit/s]	-	-	-	1.66 / 26.5	1.66 / 26.5	-	-	1.66 / 26.5	1.66 / 26.5
Standards & Protocols									
ISO 14443 A	yes	yes	yes	-	yes	yes	yes	-	-
ISO 14443 B	-	-	yes	-	yes	-	-	-	-
ISO 15693	-	-	-	yes	yes	-	-	yes	yes
mifare® Classic protocol	yes	yes	yes	-	yes	yes	yes	-	-
ICODE 1 protocol	-	-	-	yes	yes	-	-	yes	yes
EPC protocol	-	-	-	yes	yes	-	-	yes	yes
Security Features									
mifare® Classic	yes	yes	yes	-	yes	yes	yes	-	-
Exception Sensors	V, f	V, f	V, f	V, f	V, f	-	-	-	-
Additional Product Information									
Supply voltage digital [V]	5	3.3 or 5	3.3 or 5	5	3.3 or 5	5	5	5	24
Supply voltage analog [V]	5	5	5	5	5	-	-	-	-
Power down mode current, typ. [µA]	2	2	2	2	2	n.a.	n.a.	n.a.	n.a.
Wake up time [µs]	1000	1000	1000	1000	1000	n.a.	n.a.	n.a.	n.a.
Temperature range [°C]	-25 … +85	-25 … +85	-25 … +85	-25 … +85	-25 … +85	0 … +70	0 … +70	0 … +70	0 … +70
Package	SO32	SO32	SO32	SO32	SO32	-	-	-	-
Approvals									
EMC	n.a.	n.a.	n.a.	n.a.	n.a.	CE, FCC	CE, FCC	CE, FCC	CE, FCC, EN300330
Software Support	yes	yes	yes	yes	yes	yes	yes	yes	yes