FM3144

4XSPST Tuner with MIPI for LTE TRX Application

PRODUCT DESCRIPTION

The FM3144 is a Silicon On Insulator (SOI) Single Pole, Single Throw (4XSPST) antenna tuner with a Mobile Industry Processor Interface (MIPI) which require very low insertion loss, high isolation and high linearity performance.

The FM3144 is manufactured in a compact 1.5mm x 1.5mm x 0.45mm, 12-pin surface mount Quad Flat No-Lead (QFN) package.

FEATURES

- Excellent Insertion Loss and Isolation performance
- High Linearity
- RFFE 2.1 Control Interface
- Broadband frequency range: 0.4 to 5 GHz
- Small package: QFN-12 1.5mm x 1.5mm x 0.45mm
- No DC blocking capacitors required
- 1kV HBM ESD Protection on all pins

APPLICATIONS

- 3G/4G multimode cellular tablets and Multi-Mode GSM, EDGE, WCDMA, LTE
- Diversity antenna switching

Encapsulate information



Absolute Maximum Conditions

Parameters		Symbol	Minimum	Maximum	Units
Digital control signal		V_{IO}	1.65	1.95	V
RFFE Bus Voltage (SDATA, SCLK)		V_I	-0.3	2.5	V
RFFE USID Voltage		V_{USID}	-0.3	2.5	V
RFx Port Off V_{peak}	GSM850/900 Tx Band	V_{RF}		80	V
	GSM1800/1900 Tx Band				
RF input power		Pin		+47	dBm
Storage temperature		T_{STG}	-55	+150	°C
Operating temperature		T_{OP}	-40	+90	°C
Human Body Model, Class 1C		ESD	1000		V

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