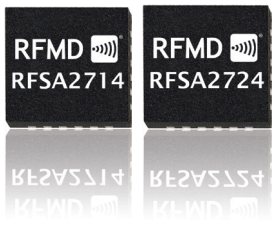
RFMD®

7-Bit Digital Step Attenuators

1991 • 2011

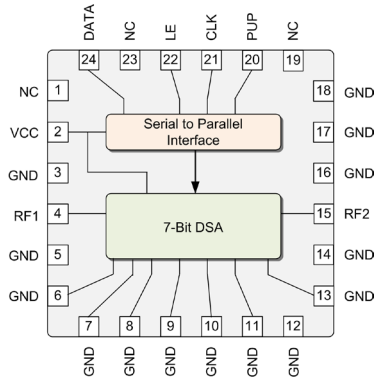


RFMD delivers 7-bit digital step attenuators featuring high linearity over the entire 31.75dB gain control range with excellent step accuracy in 0.25dB steps. The parallel-controlled RFSA2714 has an on-chip decoder that is both 3V and 5V compatible. The RFSA2724, programmed via a serial mode control interface, is also 3V and 5V compatible. Each device offers a rugged Class 1B HBM ESD rating via on-chip ESD circuitry and comes in an MCM package that is footprint compatible with most 24-pin, 4.0 x 4.0mm QFN packages.

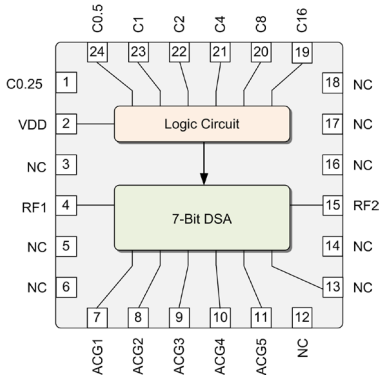
SPECIFICATIONS

Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	Number of Bits	Step Size (dB)	Attenuation Range (dB)	Insertion Loss (dB)	P1dB (dBm)	Interface	V_{CC} (V)	Package (mm)	Part Number
50	4000	7	0.25	31.75	1.1	25	parallel	5	QFN 4.0 x 4.0	RFSA2714
50	4000	7	0.25	31.75	1.1	25	serial	5	MCM 4.2 x 4.2	RFSA2724

RFSA2714



RFSA2724



FEATURES

- Frequency range: 50 to 4000MHz
- 7-bit, 31.75dB range, 0.25dB step
- High linearity, IP3 >50dBm
- 3V and 5V logic compatible
- RFSA2714: on-chip parallel decoder, parallel programming interface
- RFSA2724: serial-to-parallel controller, serial programming interface
- On-chip ESD protection >500V HBM
- Single supply, 3V to 5V operation
- Applications include: transceiver IF applications; cellular, PCS, GSM, UMTS, LTE, WiMAX/WLAN; wireless data, satellite terminals; test equipment
- Footprint compatible with most 24-pin, 4.0 x 4.0mm QFNs

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RFMD These products comply with RFMD's green packaging standards.

MPG.7-Bit DSA.0611.175

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