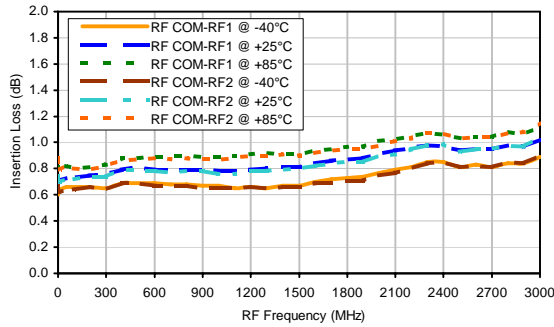# RF Switch SPDT

HSWA2-30DR+
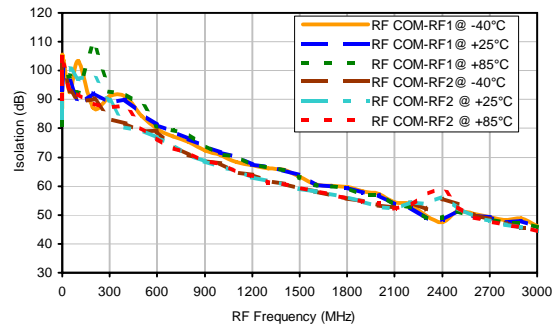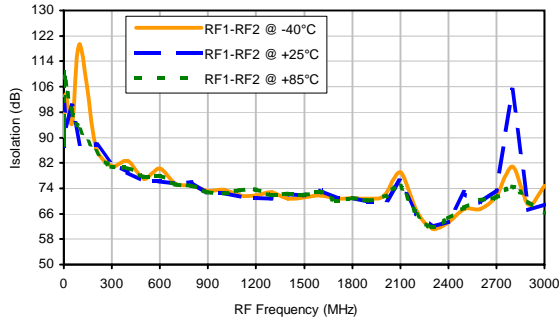
Typical Performance Curves

Insertion Loss @ Vdd=+3V over Temperature
RF COM-RF1 (State 3) & RF COM RF2 (State 2*)*

Legend:
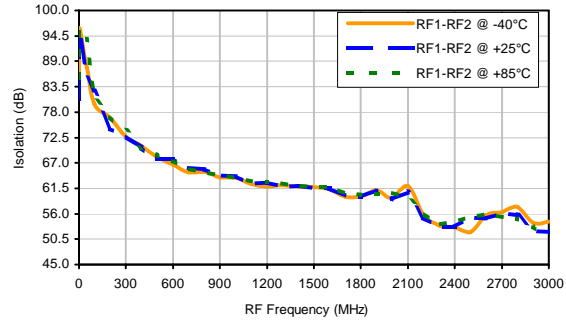- RF COM-RF1 @ -40°C
- RF COM-RF1 @ +25°C
- RF COM-RF1@ +85°C
- RF COM-RF2 @ -40°C
- RF COM-RF2 @ +25°C
- RF COM-RF2 @ +85°C

Isolation @ Vdd=+3V over Temperature
RF COM-RF1 (State 2) & RF COM RF2 (State 3*)*

Legend:
- RF COM-RF1 @ -40°C
- RF COM-RF1 @ +25°C
- RF COM-RF1 @ +85°C
- RF COM-RF2@ -40°C
- RF COM-RF2 @ +25°C
- RF COM-RF2 @ +85°C

Isolation @ Vdd=+3V over Temperature
RF1-RF2 (State 1)*

Legend:
- RF1-RF2 @ -40°C
- RF1-RF2 @ +25°C
- RF1-RF2 @ +85°C

Isolation @ Vdd=+3V over Temperature
RF1-RF2 (State 2)*

Legend:
- RF1-RF2 @ -40°C
- RF1-RF2 @ +25°C
- RF1-RF2 @ +85°C

Isolation @ Vdd=+3V over Temperature
RF1-RF2 (State 3)*

Legend:
- RF1-RF2 @ -40°C
- RF1-RF2 @ +25°C
- RF1-RF2 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF COM (State 1)*

Legend:
- RF COM @ -40°C
- RF COM @ +25°C
- RF COM @+85°C

VSWR @ Vdd=+3V over Temperature
RF COM (State 2)*

Legend:
- RF COM @ -40°C
- RF COM @ +25°C
- RF COM @ +85°C

VSWR @ Vdd=+3V over Temperature
RF COM (State 3)*

Legend:
- RF COM @ -40°C
- RF COM @ +25°C
- RF COM @ +85°C
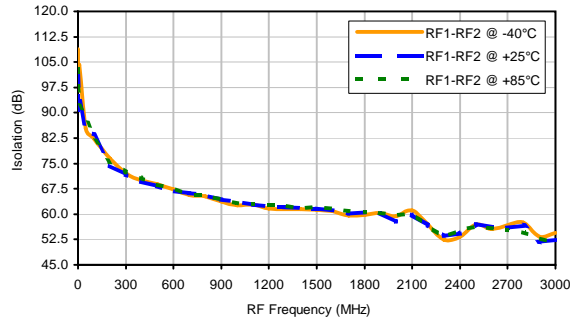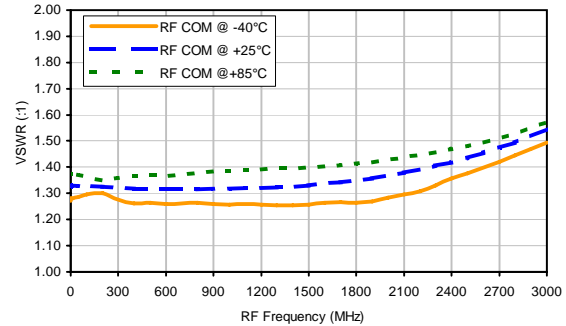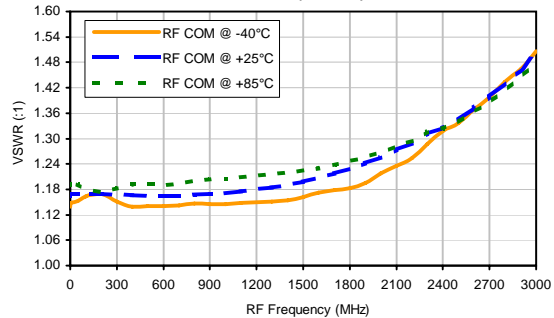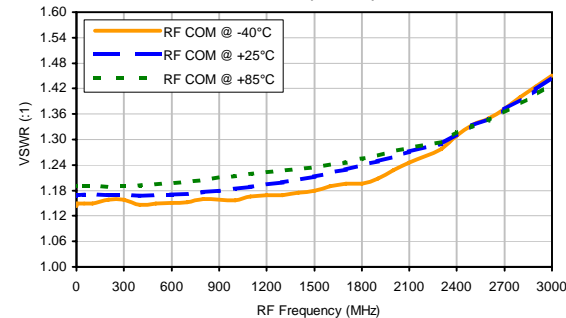
Note:

STATE	CONTROL INPUT		RF Com to RF1	RF Com to RF2
	Control 1	Control 2		
1	Low	Low	OFF	OFF
2	Low	High	OFF	ON
3	High	Low	ON	OFF

Typical Performance Curves

VSWR @ Vdd=+3V over Temperature
RF1 (State 1)*
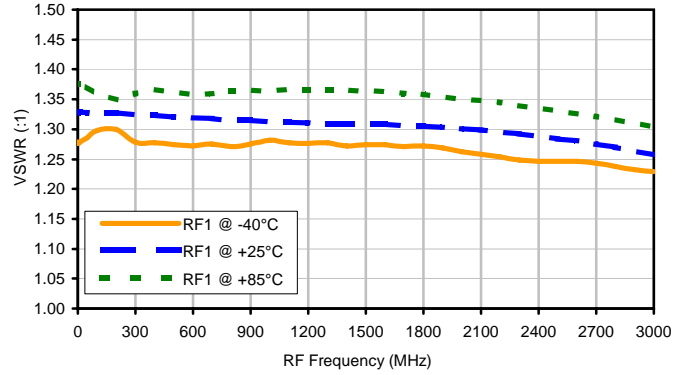
Legend:
- RF1 @ -40°C
- RF1 @ +25°C
- RF1 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF1 (State 2)*

Legend:
- RF1 @ -40°C
- RF1 @ +25°C
- RF1 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF1 (State 3)*

Legend:
- RF1 @ -40°C
- RF1 @ +25°C
- RF1 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF2 (State 1)*

Legend:
- RF2 @ -40°C
- RF2 @ +25°C
- RF2 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF2 (State 2)*

Legend:
- RF2 @ -40°C
- RF2 @ +25°C
- RF2 @ +85°C

VSWR @ Vdd=+3V over Temperature
RF2 (State 3)*

Legend:
- RF2 @ -40°C
- RF2 @ +25°C
- RF2 @ +85°C
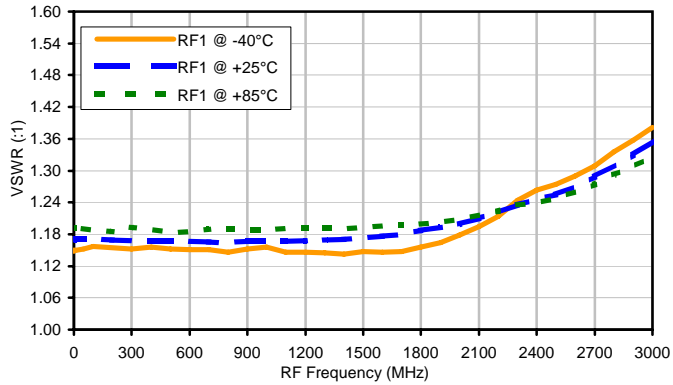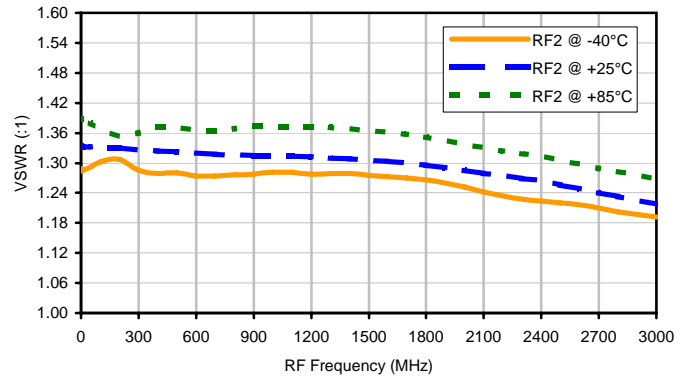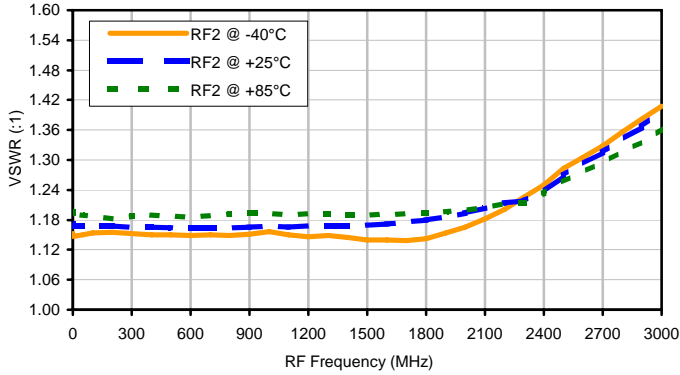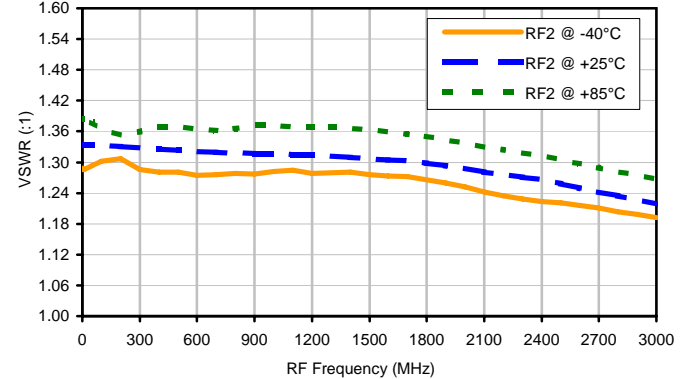
*Note:

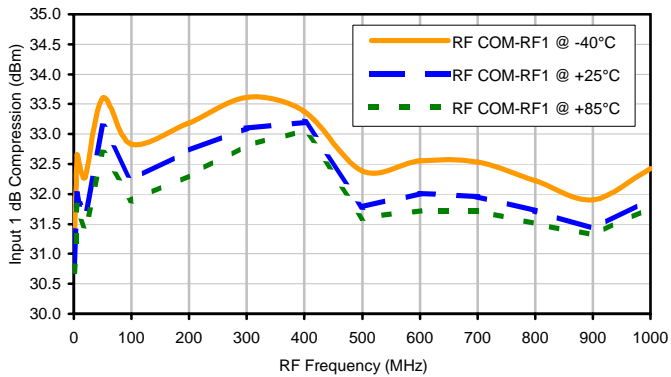| STATE	CONTROL INPUT		RF Com to RF1	RF Com to RF2
	Control 1	Control 2		
1	Low	Low	OFF	OFF
2	Low	High	OFF	ON
3	High	Low	ON	OFF

Typical Performance Curves

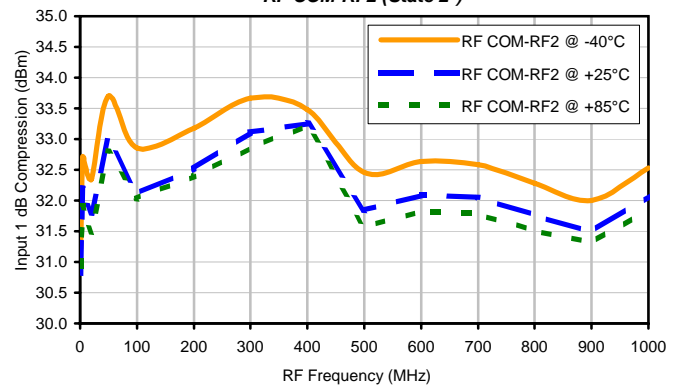**Input IP3 @ Vdd=+3V over Temperature**
RF COM-RF1 (State 3)*
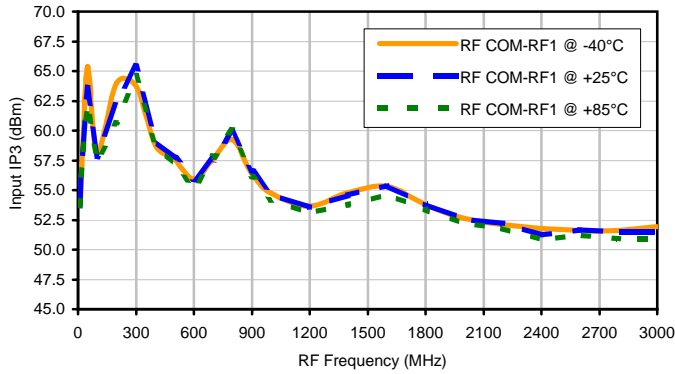
Input IP3 @ Vdd=+3V over Temperature
RF COM -RF2 (State 2)*
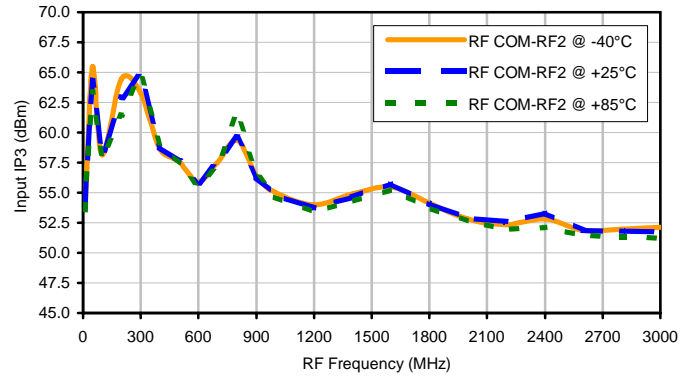
Input 1dB Compression @ Vdd=+3V over Temperature
RF COM-RF1 (State 3*)

Input 1dB Compression @ Vdd=+3V over Temperature
RF COM-RF2 (State 2)*

Note:

STATE	CONTROL INPUT		RF Com to RF1	RF Com to RF2
	Control 1	Control 2		
1	Low	Low	OFF	OFF
2	Low	High	OFF	ON
3	High	Low	ON	OFF