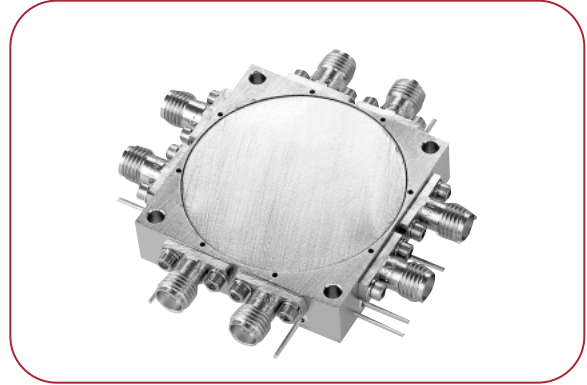


## SINGLE-POLE SEVEN-THROW SWITCHES

### FEATURES

- Multioctave bands 0.2 to 18 GHz
- Current or TTL control
- Low insertion loss
- High isolation
- Medium and high speed models
- Drop-in models available



Frequency Range (GHz)	Model Number	Insertion Loss (dB, Max.)	Isolation (dB, Min.)	VSWR (Max.)	Type	Rise/Fall Time (ns, Typ.)	On/Off Time (ns, Typ.)	On/Off Time (ns, Max.)	DC Power Positive (mA, Max.)	DC Power Negative (mA, Min.)
<b>STANDARD, MULTIOCTAVE BAND MODELS</b>										
0.2–2	SW7-002020RN1NF	2	60	1.7:1	Reflective	20/20	150	180	185	185
	SW7-002020AN1NF	2.4	65	1.7:1	Absorptive	20/20	150	180	185	185
0.5–2	SW7-005020RN1NF	1.9	65	1.7:1	Reflective	20/20	150	180	185	185
	SW7-005020AN1NF	2.3	65	1.7:1	Absorptive	20/20	150	180	185	185
2–8	SW7-020080RN1NF	2.3	65	1.8:1	Reflective	20/20	150	180	185	185
	SW7-020080AN1NF	2.6	65	1.8:1	Absorptive	20/20	150	180	185	185
4–12	SW7-040120RN1NF	3.1	65	1.8:1	Reflective	20/20	150	180	185	185
	SW7-040120AN1NF	3.2	65	1.8:1	Absorptive	20/20	150	180	185	185
2–18	SW7-020180RN1NF	3.7	60	2:1	Reflective	20/20	150	180	185	185
	SW7-020180AN1NF	4	50	2:1	Absorptive	20/20	150	180	185	185
1–18	SW7-010180RN1NF	3.9	60	2:1	Reflective	20/20	150	180	185	185
	SW7-010180AN1NF	4.2	50	2:1	Absorptive	20/20	150	180	185	185
<b>OPTIMIZED PERFORMANCE MODEL</b>										
1–1.5	SW7-010015AN1NF	1.5	60	1.6:1	Absorptive	100	200	1000	200	200

Electrical performance of multioctave models can be optimized over narrower bandwidths, or for a particular parameter. Electrical options include: Lower insertion loss, lower VSWR, higher isolation, high power and flat amplitude response. Mechanical/Control options include: Custom packaging, single supply operation, ultra-fast on/off time and BCD decoder. Consult MITEQ for options.



## SP7T SWITCH ORDERING INFORMATION

To order a switch, please include the model number derived from the following table. If requesting a quotation for a switch not listed in this catalog, please consult MITEQ. Include any additional specifications that are not listed.

	SW	7	-	020	180	A	N	1	N	F
<b>SWITCH</b> _____										
<b>Number of throw(s)</b> _____										
<b>Frequency (100's of MHz)</b>										
Lower frequency _____										
Upper frequency _____										
<b>Type</b> _____										
Absorptive .....										
Reflective .....										
<b>Logic</b> _____										
Non-inverting .....										
Inverting .....										
No driver .....										
<b>Power Supply</b> _____										
+5 V, -12 V .....										
+5 V, -5 V .....										
+5 V, -15 V .....										
+12 V, -12 V .....										
+15 V, -15 V .....										
No driver .....										
<b>Hermeticity</b> _____										
Non-hermetic .....										
Hermetic .....										
<b>Connectors</b> _____										
SMA-Female .....										
SMA-Male .....										

Note 1: For "no driver" option, unit is current controlled through logic control pin, -20 mA for low loss condition and +20 mA for isolation state. Switching speeds are not measured on driverless units.

Note 2: This option has 0.2 dB higher insertion loss, on/off time is 200 ns maximum and rise/fall time is 30 ns typical.

### AVAILABLE OPTIONS

- Add suffix AM ..... Amplitude matching port-to-port
- Add suffix PM ..... Phase matching port-to-port
- Add suffix VL1 ..... Common port video filter
- Add suffix VL2 ..... Output port(s) video filter
- Add suffix VL3 ..... Both common port and output port(s) video filter
- Add suffix HP ..... Higher power (alternate package configurations)

Example:

The above illustrated part number SW7-020180AN1NF is for the following:

- Switch SP7T
- 2 to 18 GHz
- Absorptive
- Non-inverting
- +5 V, -12 V
- Non-hermetic
- SMA-F connectors

Consult MITEQ for additional options.

When additional options are ordered, MITEQ will add a 4 digit number (-SXXXX) suffix to the part number.



**MITEQ**

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