



GaAs MMIC Switches

Space Qualified

SW-S500X Series

Electrical Specifications

Part #	SW-S5004	SW-S5008	SW-S5007	SW-S5006
Description	DUAL 3 X 1 RF Switch	SPDT	SP3T	SP5T
Frequency Range	144–176 MHz	140–1570 MHz	1100–1180 MHz	1100–1180 MHz
Isolation	60 dB	38 dB	40 dB	40 dB
Phase Match	0.5° max	—	—	—
Amplitude Match	±0.1 dB max	—	—	—
Insertion Loss	10 dB ¹	1.0 dB	1.5 dB	1.5 dB
VSWR	1.3:1	1.3:1	1.3:1	1.3:1
Third-Order IMR	70 dBc	70 dBc	70 dBc	70 dBc
1 dB Comp Point	+20 dBm	+20 dBm	+20 dBm	+20 dBm
Control Power	200 µA @ –5V 20 µA @ 0V	100 µA @ –5V 20 µA @ 0V	200 µA @ –5V 20 µA @ 0V	200 µA @ –5V 20 µA @ 0V
Switching Speed	<1.0 µsec	<1.0 µsec	<1.0 µsec	<1.0 µsec
Overall Weight	1.9 Grams	1.0 Gram	1.9 Grams	1.9 Grams
¹ RF Path of SW-S5004 includes a Resistive Power Combiner.				

Specifications Subject to Change Without Notice.

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