RF SWITCH SPDT

R&K-SW1040-0S

■ Single Pole Double Throw (SPDT) Switch
■ 9kHz～6000MHz Operation ■ Hi-Isolation
■ Absorptive ■ Pin max. +35dBm
■ Low Cost ■ RoHS Compliance

SPECIFICATIONS

Frequency Range	: 9kHz ~ 6000MHz
Insertion Loss	: 2.5dB (max.)
Isolation (9kHz ~ 3GHz)	: 80dB (min.)
(3GHz ~ 6GHz)	: 70dB (min.)
Impedance	: 50Ω
Return Loss (All Ports)	: 15dB (typ.)
Input Power 1dB Comp.	: +35dBm (min.) @2GHz
Input IP3	: +55dBm (typ.) @2GHz
Maximum RF Input Power	: +35dBm Through +30dBm Terminated
Switching Speed (Turn On)	: 250ns (typ.) / 50% Cont. to 90% RF
(Turn Off)	: 200ns (typ.) / 50% Cont. to 10% RF

Control Logic

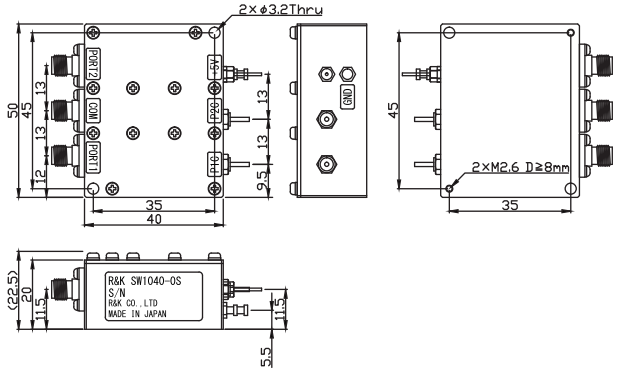
P1 Cont.	P2 Cont.	Status
H	H	RF OFF
L	H	Port1
H	L	Port2
L	L	RF OFF ※RFC in not Terminated.

※H = +5V C-MOS H or Open / L = +5V C-MOS L or Short to GND.

DC Supply Input	: +5V ±0.5V ／ 10mA (max.)
Operating Temperature	: −20℃ to +60℃
Storage Temperature	: −20℃ to +80℃
Connectors	: SMA-FEMALE
Weight	: 95g (typ.)

OUTLINE DRAWING

※IN MILLIMETERS

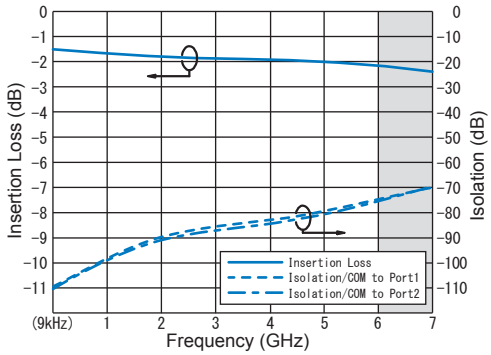


HOW TO ORDER

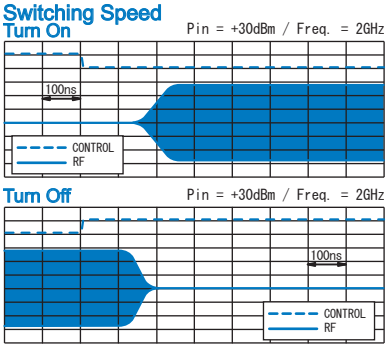
Model Name	
R&K-SW1040-0S	No Option

TYPICAL PERFORMANCE

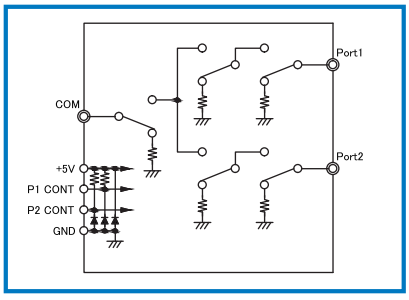
Insertion Loss & Isolation



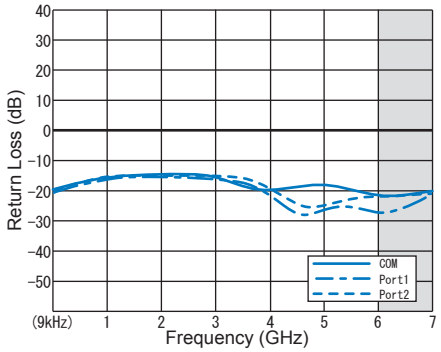
Switching Speed



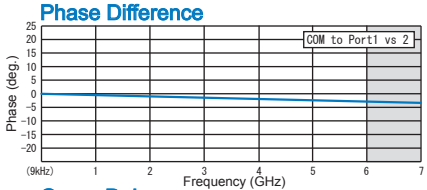
SCHEMATIC



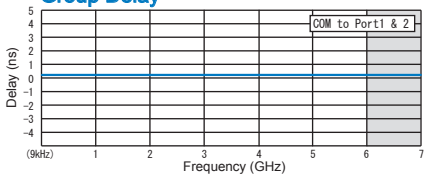
Return Loss



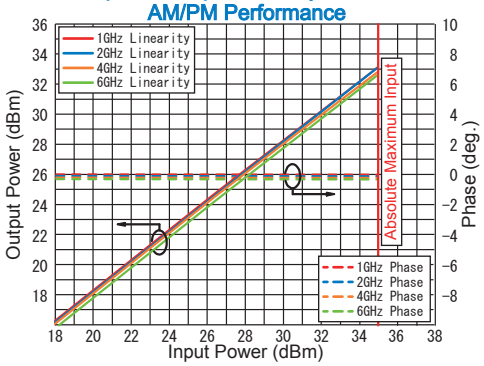
Phase Difference



Group Delay



Input vs Output Linearity & Phase AM/PM Performance



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