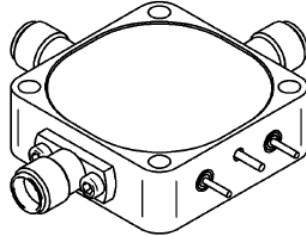




## FEUILLE DE SPECIFICATIONS DATASHEET

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**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
**Désignation : Switch SPDT 10MHz-18GHz 20dBm**



<b>Caractéristiques électriques</b> <i>electrical specifications</i>		All measurements performed @ +25°C and +5Vdc unless other specified	
	<b>Conditions de mesures</b> <i>Measuring conditions</i>	<b>Spécifications AA-MCS</b> <i>AA-MCS specifications</i>	<b>Unités</b> <i>Units</i>
<b>Bande de fréquence</b> <i>Bandwidth</i>		10-18000	MHz
<b>Puissance</b> <i>Power</i>	Input max. Input for P1dB	+25 max. +20 min.	dBm
<b>Pertes d'insertion</b> <i>Insertion loss</i>	@ small signal & +25°C	2.8 typ. 3.2 max. @10GHz 4.2 typ. 5.0 max. @18GHz	dB
<b>Adaptation d'entrée / sortie</b> <i>Input/output return loss</i>	Input Outputs	12 min. 15 typ. 10 min. 15 typ.	dB
<b>Isolation entrée / sortie</b> <i>Isolation between RFC &amp; RF1/2</i>	@ 10GHz @ 18GHz	40 min. 45 typ. 30 min. 35 typ.	dB
<b>Isolation entre sorties</b> <i>Isolation between outputs</i>	@ 10GHz @ 18GHz	50 typ. 45 typ.	dB
<b>Temps de commutation</b> <i>Switching time</i>	Rise/fall ON/OFF	10 max. 10 max.	ns
<b>OIP3</b> <i>OIP3</i>	@ 10MHz > 500MHz	+25 min. +40 min.	dBm
<b>Tension d'alimentation</b> <i>Supply voltage</i>	Feedthru	+5 typ. +5.5 max	Vdc
<b>Consommation</b> <i>Consumption</i>	@ +5V	10 max.	mA

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**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
**Désignation : Switch SPDT 10MHz-18GHz 20dBm**

Caractéristiques mécaniques <i>Mechanical features</i>		Spécifications AA-MCS <i>AA-MCS specifications</i>	Unités <i>Units</i>
<b>Longueur x largeur x Hauteur</b> <i>Length x width x height</i>	L x W x H Without connectors	28 x 28 x 9.5	mm
<b>Masse</b> <i>Weight</i>		20 typ.	g
<b>Connectique</b> <i>Connectors</i>	RF Supply (+5Vdc), CTL (0-5V)	SMA female Feedthru	

Conditions environnementales <i>Environmental conditions</i>		Spécifications AA-MCS <i>AA-MCS specifications</i>	Unités <i>Units</i>
<b>Température de service</b> <i>Operating temperature</i>	Case temperature	-40 min. + 85 max.	°C
<b>Température de stockage</b> <i>Storage temperature</i>		-55 min. +105 max.	°C

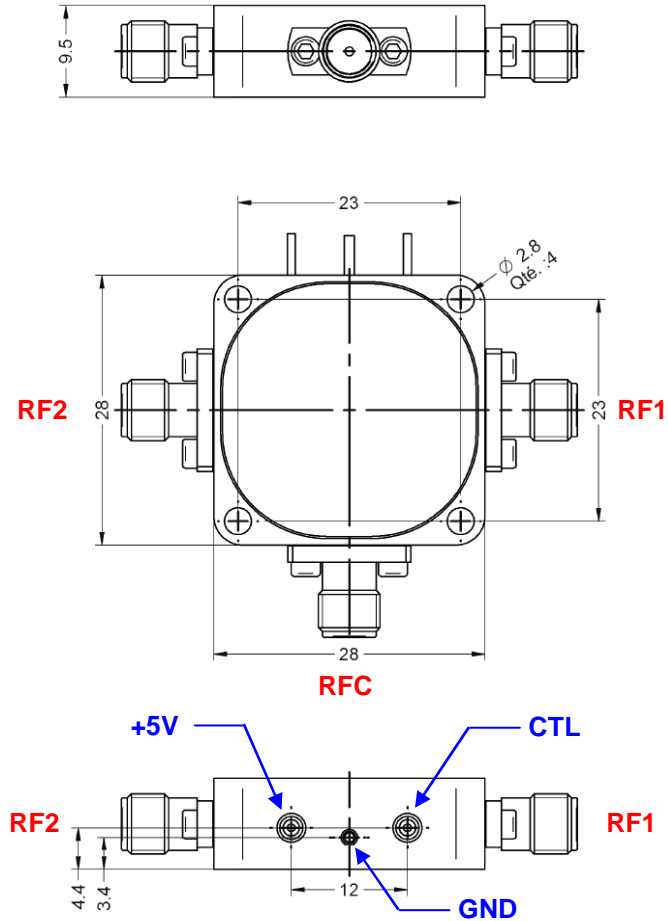
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**FEUILLE DE SPECIFICATIONS**  
**DATASHEET**

**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
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Mechanical drawing:



Truth table:

CTL input	RF path
Low (0V or open)	RFC to RF1
High (+5V)	RFC to RF2

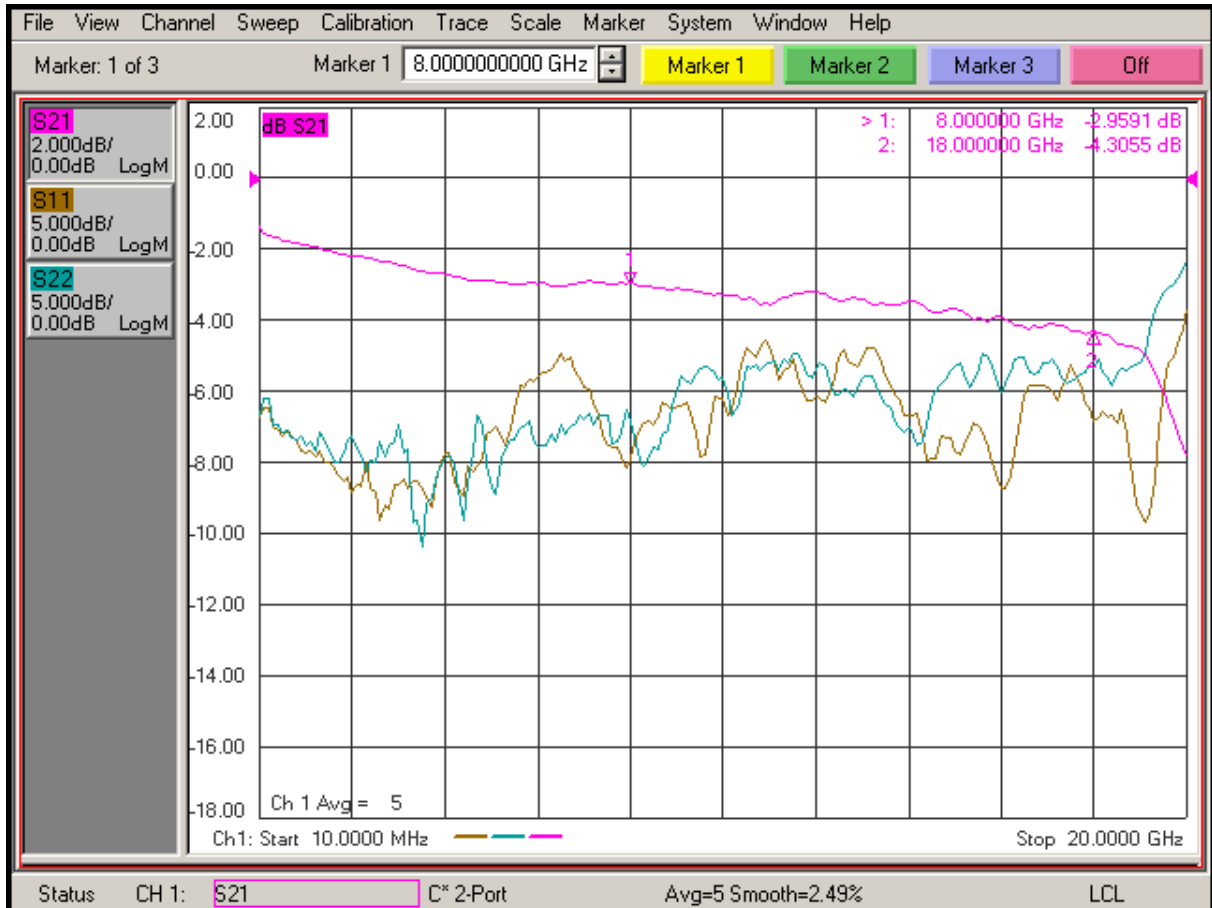
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**Typical measurements:**



Insertion loss (pink)  
RFC return loss (brown)  
RF1/2 return loss (blue)

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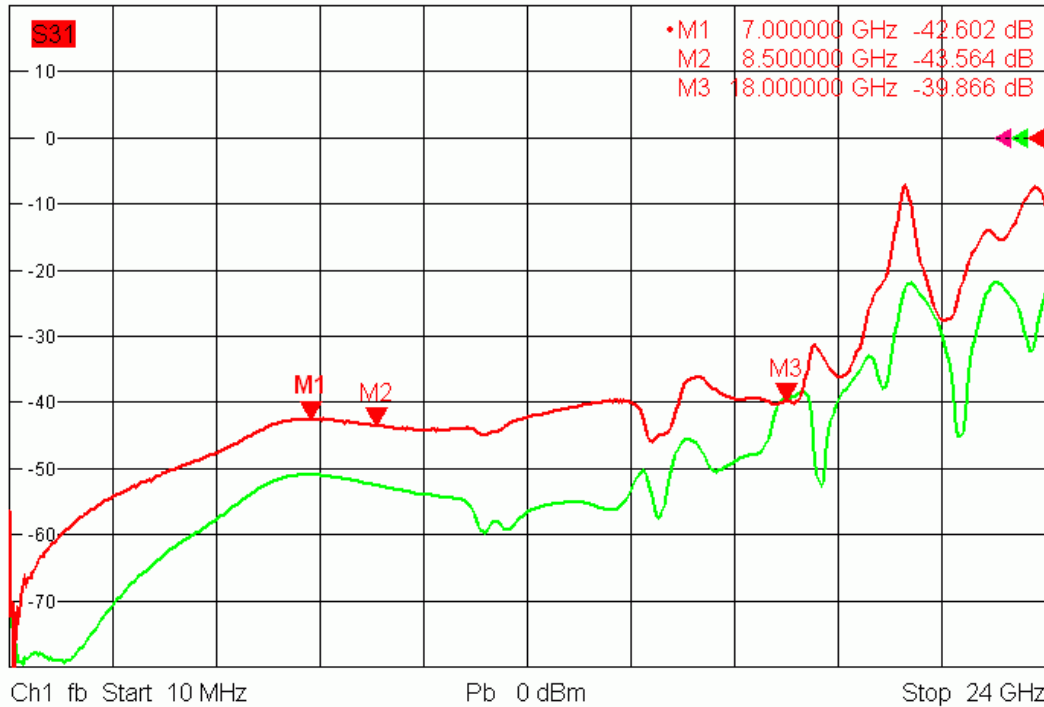


## FEUILLE DE SPECIFICATIONS DATASHEET

**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
**Désignation : Switch SPDT 10MHz-18GHz 20dBm**



Trc5 S31 dB Mag 10 dB / Ref 0 dB Cal Math 2 (Max)  
 Trc7 S32 dB Mag 10 dB / Ref 0 dB Cal Smo  
 Mem11[Trc5] S31 dB Mag 10 dB / Ref 0 dB Invisible



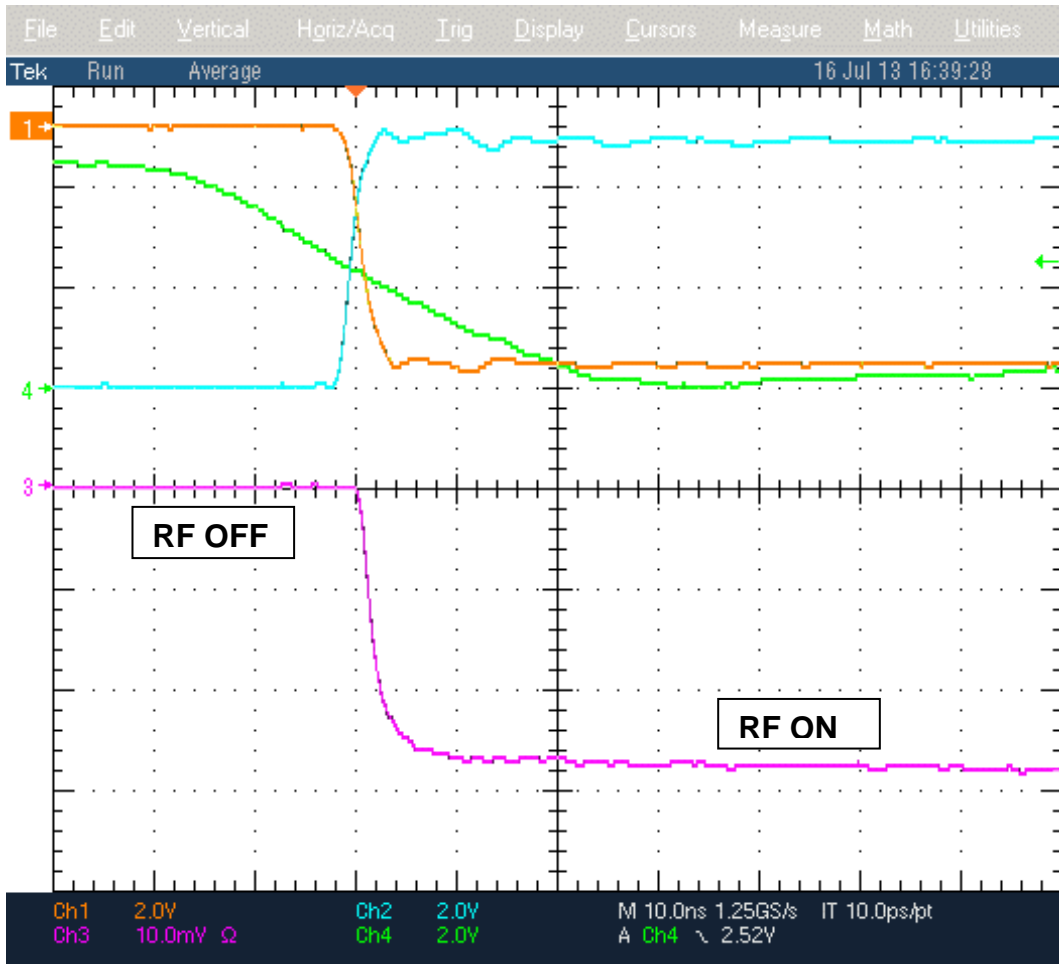
RFC to RF1/2 Isolation (red)  
RF1 to RF2 Isolation (green)

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**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
**Désignation : Switch SPDT 10MHz-18GHz 20dBm**



RF OFF to RF ON switching (path RF1) – 10ns per division

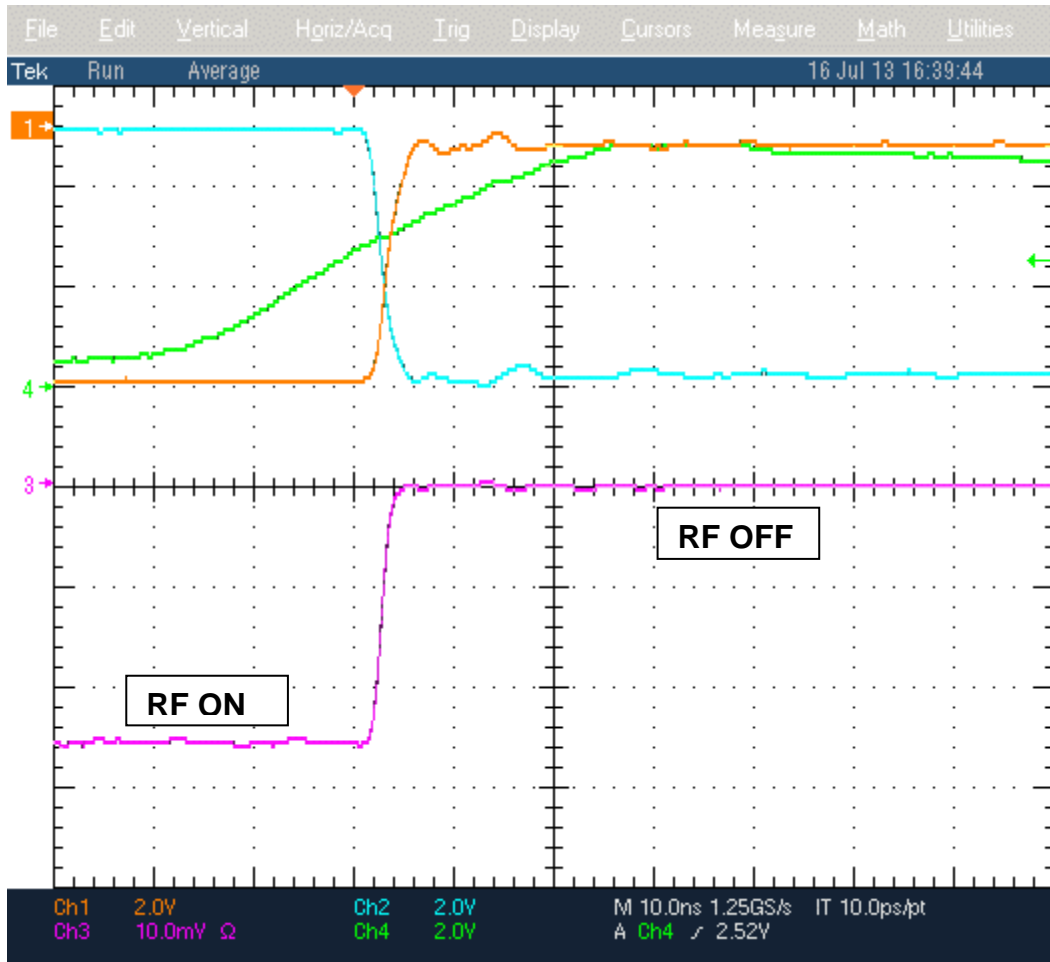
CTL (green)  
Internal commands (blue et orange)  
RF Power (purple)

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**FEUILLE DE SPECIFICATIONS**  
**DATASHEET**

**P/N : AAMCS-SWT-SPDT-0010M-0018G-20dBm-200022**  
**Désignation : Switch SPDT 10MHz-18GHz 20dBm**



RF\_ON to RF\_OFF switching (path RF1) – 10ns per division

CTL (green)  
Internal commands (blue et orange)  
RF Power (purple)

Ed.	Par / By	Le	Observation
0	A. Billy	22/07/2013	Création