



Total Solution Provider in Saw Device

SF-0806T1-C26

Band 20, RF-Rx Balance SAW Filter
Revision 0 : February 2014



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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Electrical Characteristics

Maximum Ratings

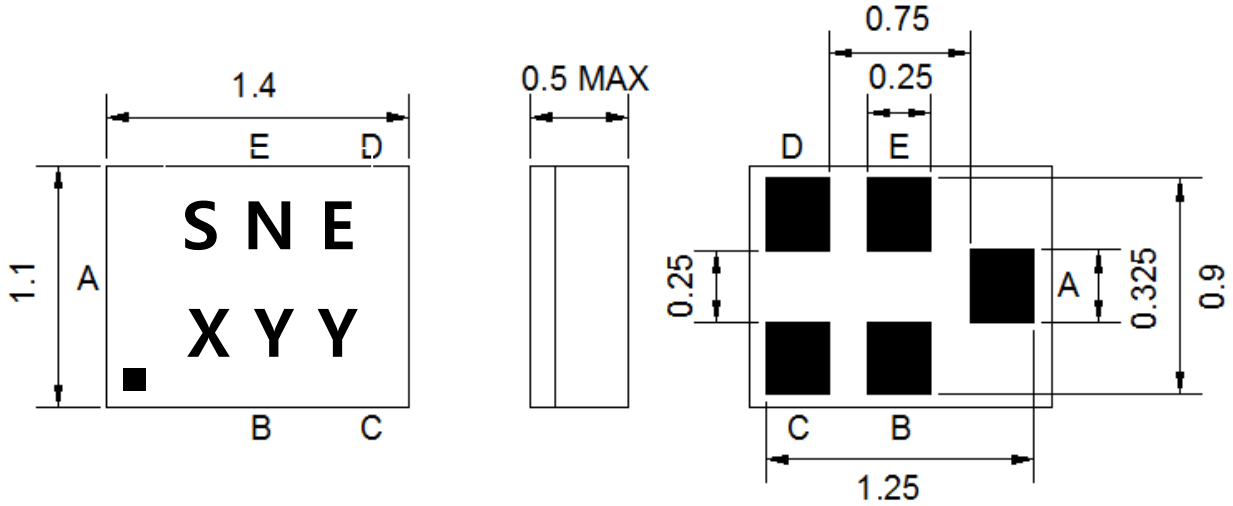
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	-
Maximum Input Power	dBm	-	-	10
Source Impedance (Unbalanced)	Ω	-	50	-
Load Impedance (Balanced)	Ω	-	100	-
Package type & size	C26			
Length x Width	mm ²	-	1.4 x 1.1	-
Height	mm	-	-	0.5

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	806.0	-
Insertion Loss within 791.0 ~ 821.0 MHz	dB	-	2.5	3.5
Amplitude Ripple within 791.0 ~ 821.0 MHz	dB _{p-p}	-	1.1	2.2
VSWR within 791.0 ~ 821.0 MHz	-	-	1.8	2.3
Amplitude balance within 791.0 ~ 821.0 MHz	dB	-1.0	-0.3 ~ +0.2	+1.0
Phase balance within 791.0 ~ 821.0 MHz	deg	-10	-4.0 ~ +1.0	+10
Attenuation:				
0.3 ~ 760.0 MHz	dB	45	68	-
760.0 ~ 770.0 MHz	dB	20	57	-
832.0 ~ 862.0 MHz	dB	40	45	-
873.0 ~ 903.0 MHz	dB	40	48	-
1000.0 ~ 2000.0 MHz	dB	35	58	-
2000.0 ~ 3000.0 MHz	dB	40	63	-
3000.0 ~ 4000.0 MHz	dB	35	57	-
4000.0 ~ 5000.0 MHz	dB	30	53	-
5000.0 ~ 6000.0 MHz	dB	25	48	-

Notes : (1) No Matching Network .

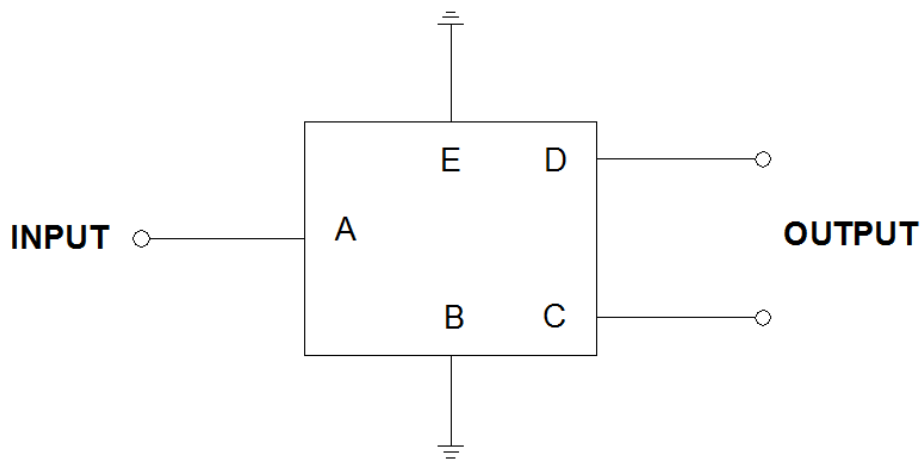
Package Dimensions



Marking Descriptions	
S	SAWNICS
NE	Series Number
X	Date Code(Year+Month)
YY	Lot No

Pin Description	
B, E	Ground
A	Input
C,D	Balanced Output

Testing Environment



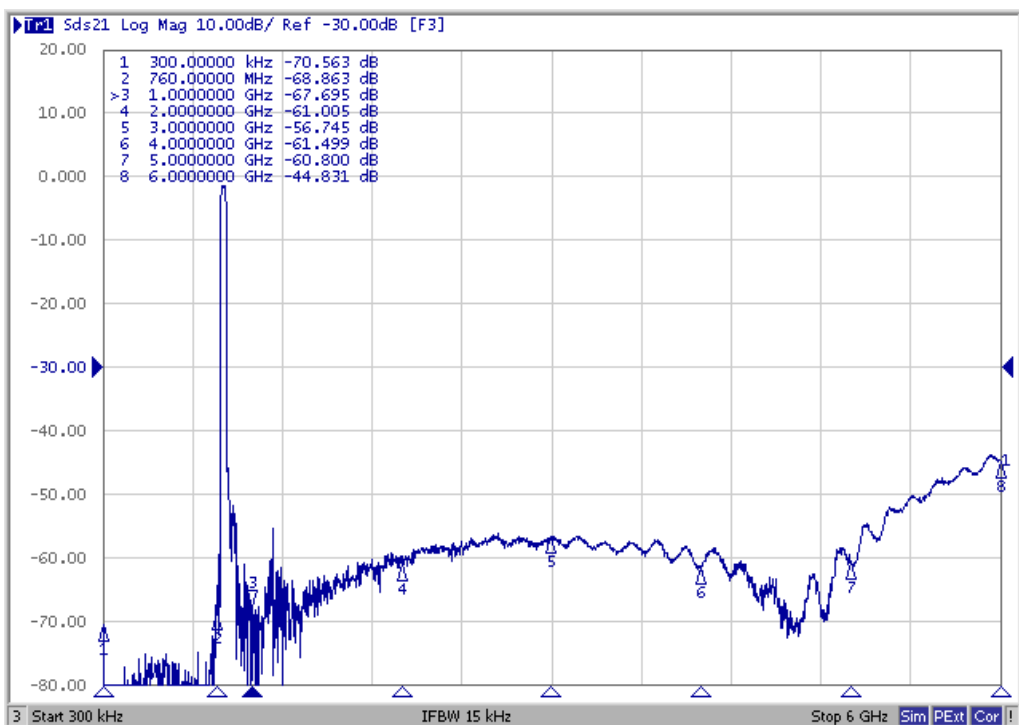
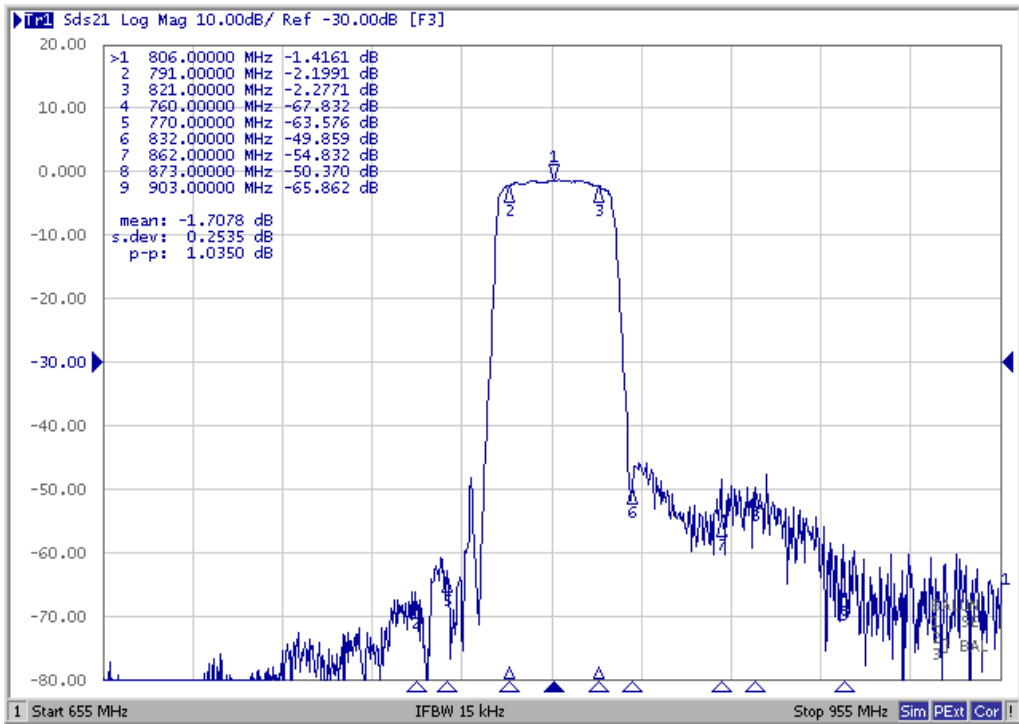
Source Impedance: 50 Ω

Load Impedance: 100 Ω



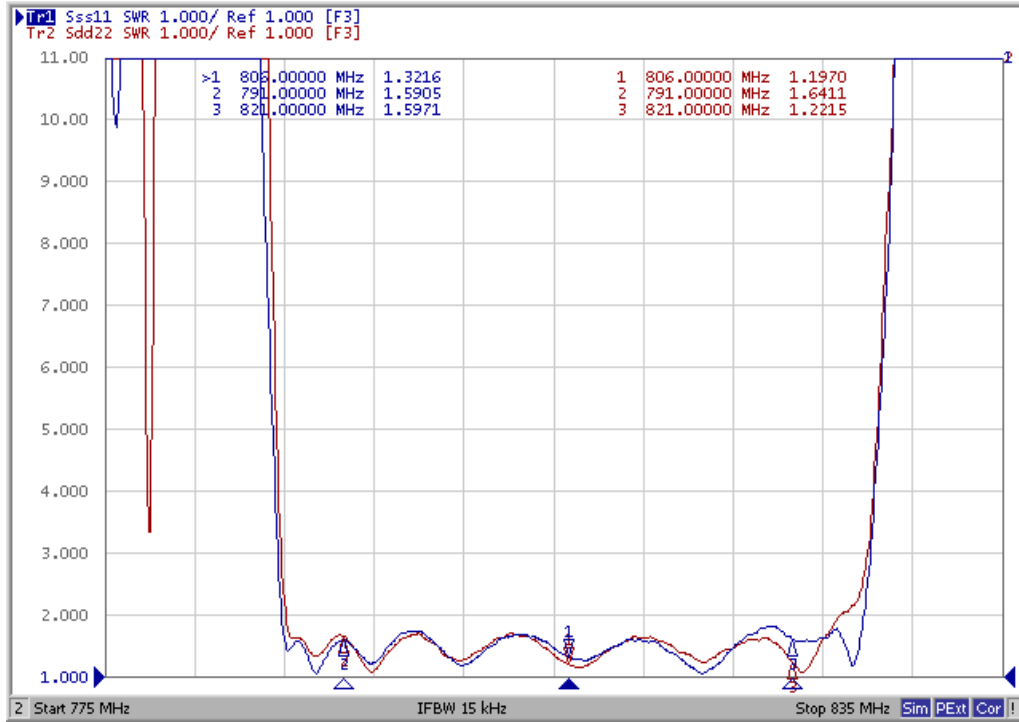
Frequency Characteristics

Frequency Response

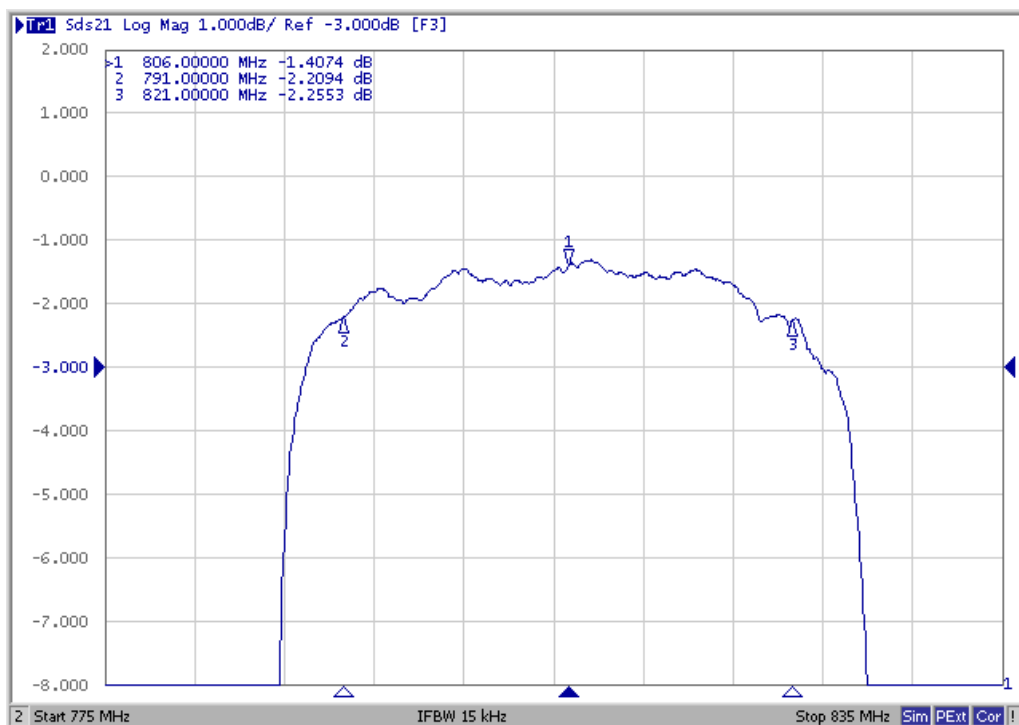




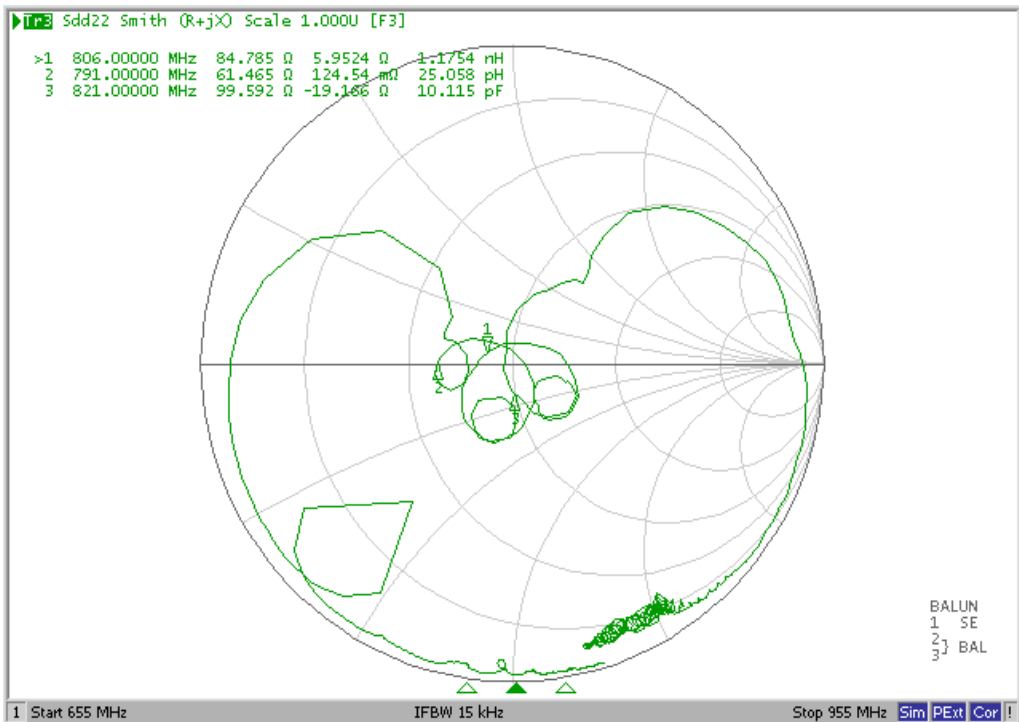
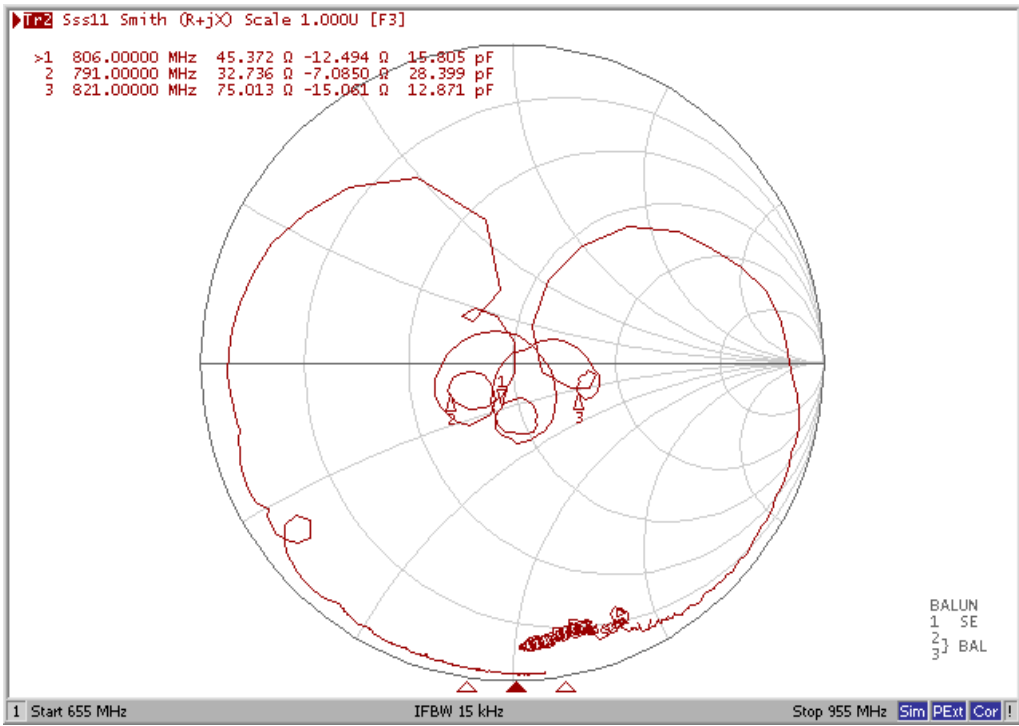
VSWR



Ripple

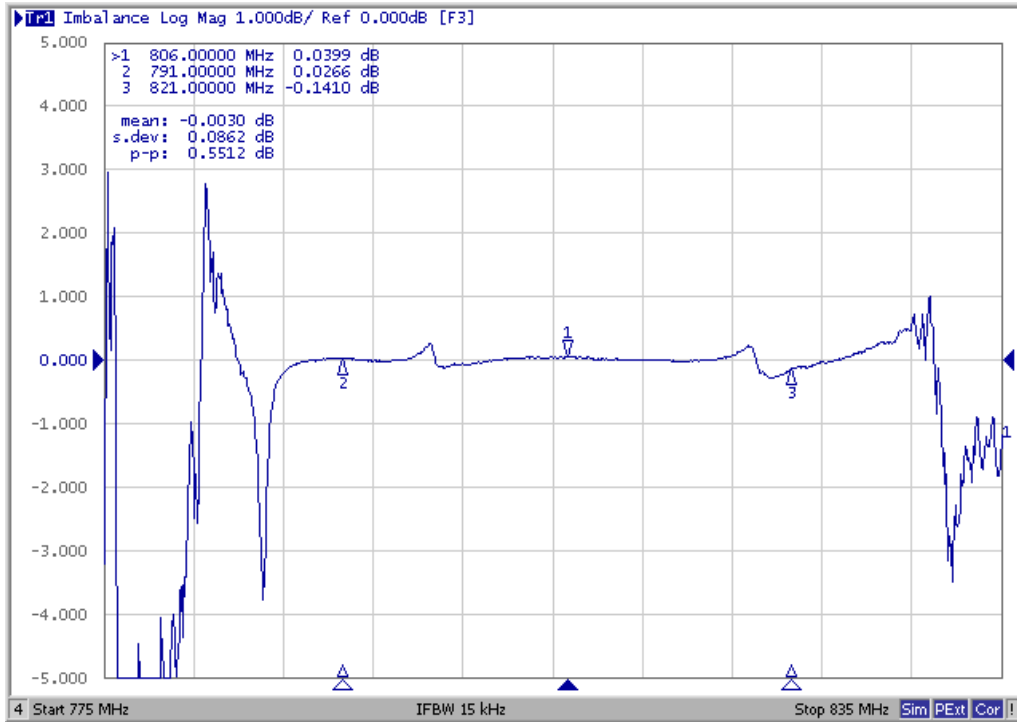


Smith Chart

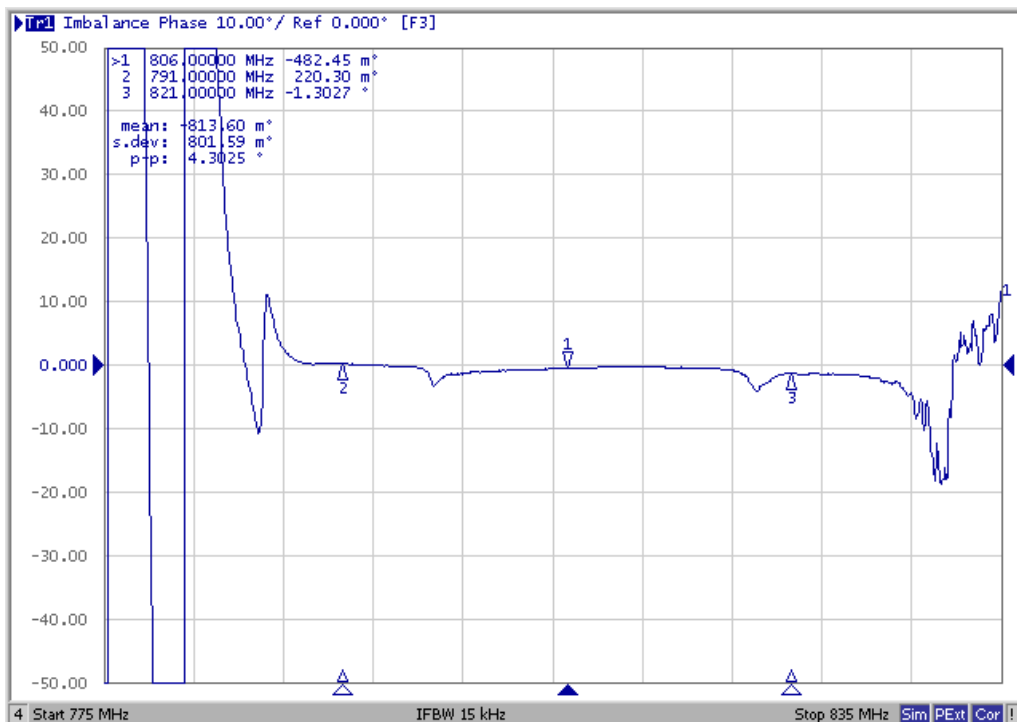




Amplitude balance



Phase balance





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Data Sheet(Rev 0)

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