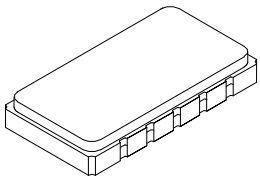
AEC-Q200
This component was always RoHS compliant from the first date of manufacture.

SF2085A

96.00 MHz SAW Filter

- ***Low Insertion Loss***
- ***13.3 X 6.5 mm Surface-Mount Case***
- ***Complies with Directive 2002/95/EC (RoHS)***



SMP-53-S

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+13	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for lead-free soldering - Max Soldering Temperature	260°C for 30 s	

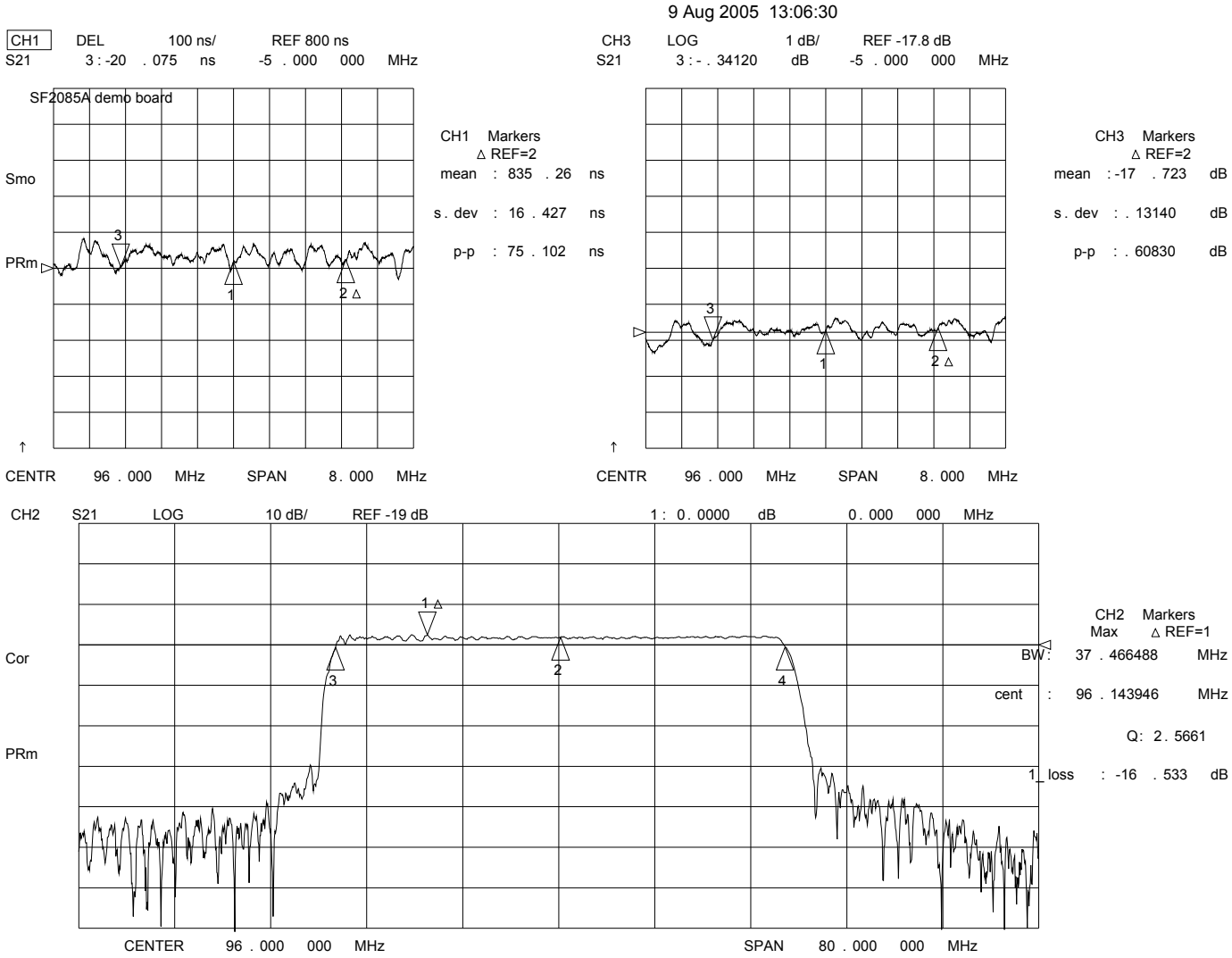
Electrical Characteristics

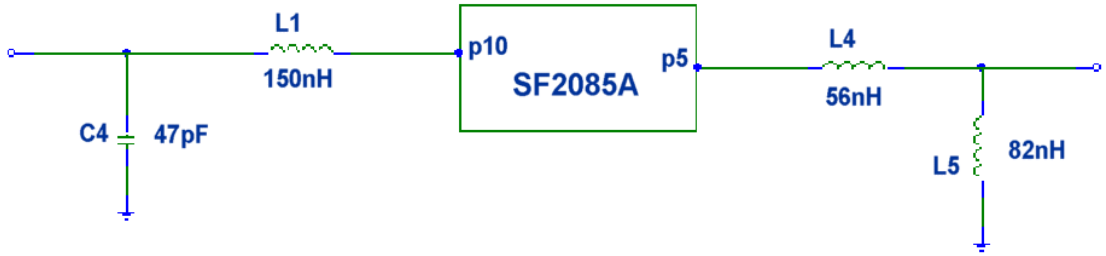
Characteristic			Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency			f_C			96.000		MHz
Insertion Loss						17	19	dB
Passband Ripple		CF ±15 MHz					2	dB p-p
Passband		1dB			35			MHz
Passband		3dB				36		MHz
Group Delay	Fc±15 MHz	within adjacent 5 MHz windows					50	nsec
Amplitude Ripple	Fc±15 MHz	within adjacent 5 MHz windows					1.5	dB
VSWR at Fc							1.8	
Group Delay	Absolute Group Delay Variation; CF ±15 MHz					180		nsec
Rejection		40 dB					50	MHz
Temperature		Operating			-40		85	°C
		Storage			-40		85	
Matching to 50Ω Balanced or Single Ended Impedance				External L-C				
Case Style				SMP-53-S 13.3 x 6.5 mm Nominal Footprint				
Lid Symbolization (YY=year, WW=week, S=shift)				RFM, SF2085A, YYWWS				

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.

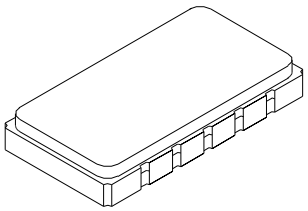




SMP-53-S Case

10-Terminal Ceramic Surface-Mount Case

13.3 x 6.5 mm Nominal Footprint

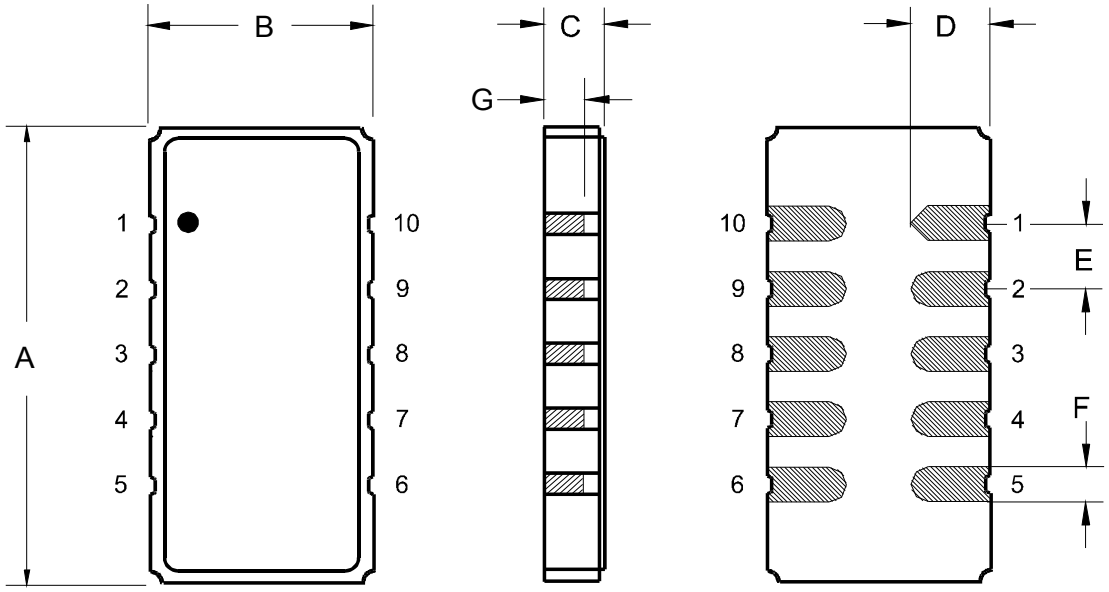


Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A		13.3			.524	
B		6.5			.256	
C			2.00			.078
D		2.3			.091	
E		1.91			.075	
F		1.02			.040	
G		1.0			0.039	

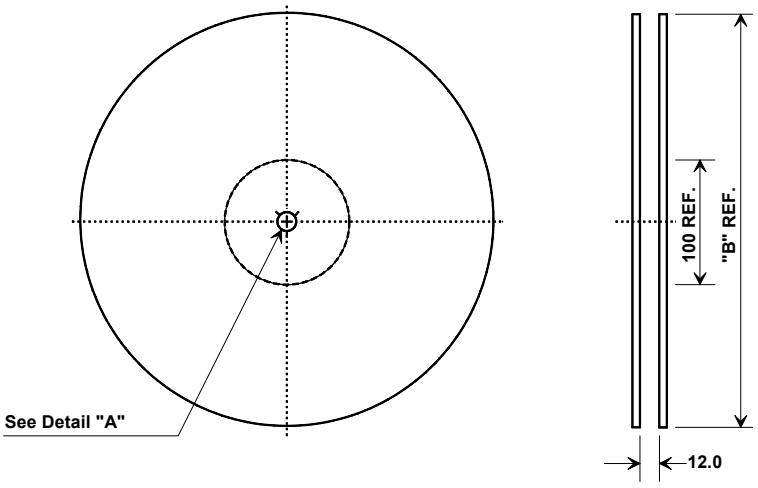
Electrical Connections

Connection	Terminals
Input	10
Input Return	1
Output	5
Output Return	6
Ground	All others



TOP VIEW BOTTOM VIEW

Tape and Reel Specifications

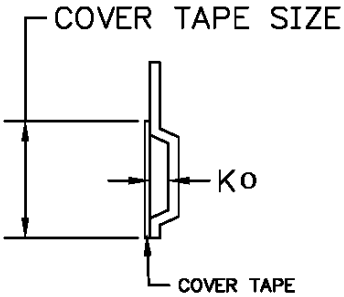


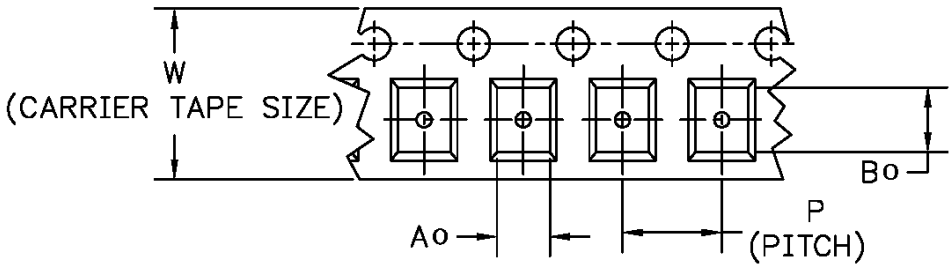
Tape and Reel Standard per ANSI/EIA-481

"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Cover Tape	21.3 mm
Ao	.274 ± .004 (7.0)
Bo	.542 ± .004 (13.76)
Ko	.088 ± .004 (2.2)
Pitch	12 mm
W	24 mm
Tape Length	86 M
Pockets/M	83/M





Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.