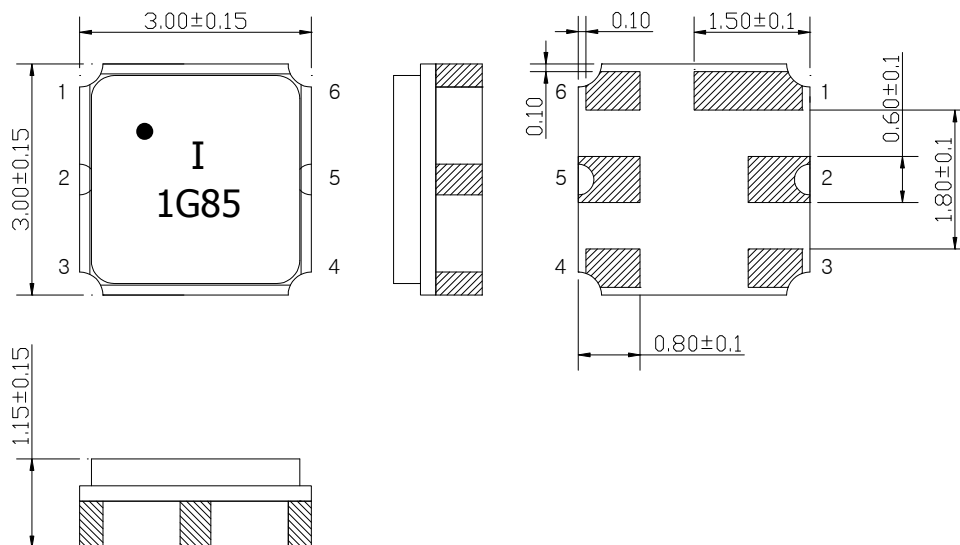


SAW Bandpass Filter F1G85

Features

- DCS1800 applications
- Usable bandwidth of 75 MHz
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package (3.0 mm * 3.0 mm)
- Single-ended Operation
- RoHS Compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μ m, Over a 1.27 ~ 8.89 μ m
Ni Plating

Pin Configurations

2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-40	-	85
Power Handling Capability	dBm	-	-	13

Electrostatics Sensitive Device (ESD)

	I T F Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
		Rev. Date	2008-09-23	
		Rev.	NC8010-AS01	1/7

SAW Bandpass Filter F1G85

Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	1842.5	-	MHz
Insertion Loss (In Fc +/- 37.5 MHz)	-	2.2	3.8	dB
Amplitude Ripple (In Fc +/- 37.5 MHz)	-	1.3	2.3	dBp-p
VSWR (In Fc +/- 37.5 MHz)	-	2.0	2.2	
Relative Attenuation				
DC ~ 1500.0 MHz	20.0	24.5	-	dB
1500.0 MHz ~ 1710.0 MHz	22.0	25.0	-	
1710.0 MHz ~ 1785.0 MHz	10.0	23.5	-	
1920.0 MHz ~ 3120.0 MHz	25.0	28.0	-	
3120.0 MHz ~ 4000.0 MHz	17.0	30.0	-	
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 37.5 MHz)			13	dBm
Input/Output Impedance		50		Ohms

Notes :

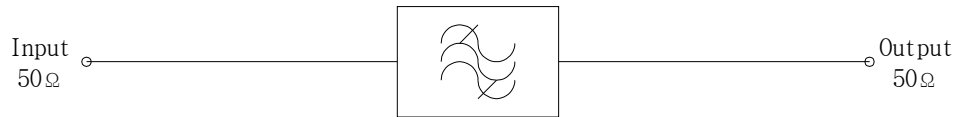
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements are measured relative to insertion loss

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
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SAW Bandpass Filter F1G85

Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



Marking Configuration

1)
●
I²⁾
1G85³⁾

1) Pad Number 1 Index

2) Manufacturer name

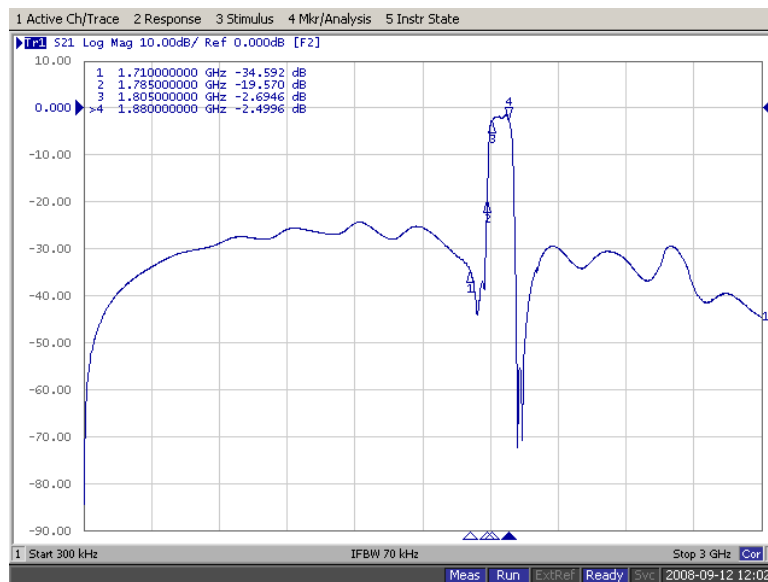
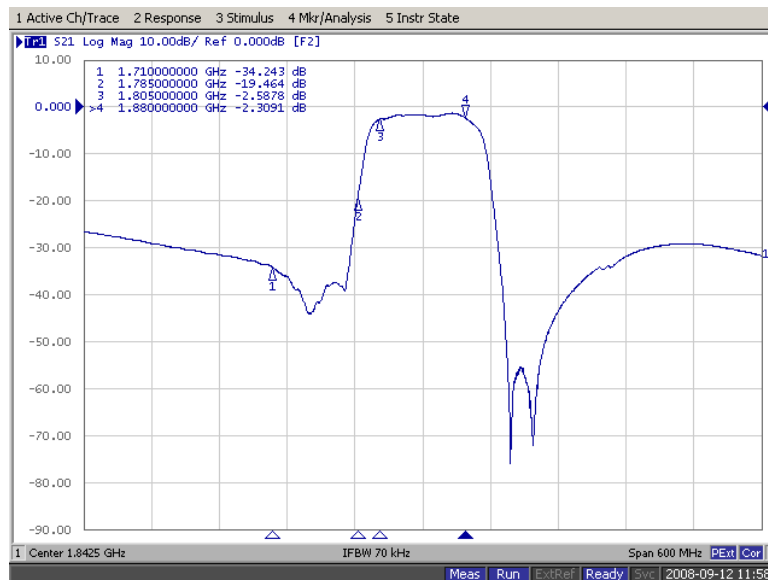
3) Marking Number

* Ink or Laser Marking available

	I T F Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
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SAW Bandpass Filter F1G85

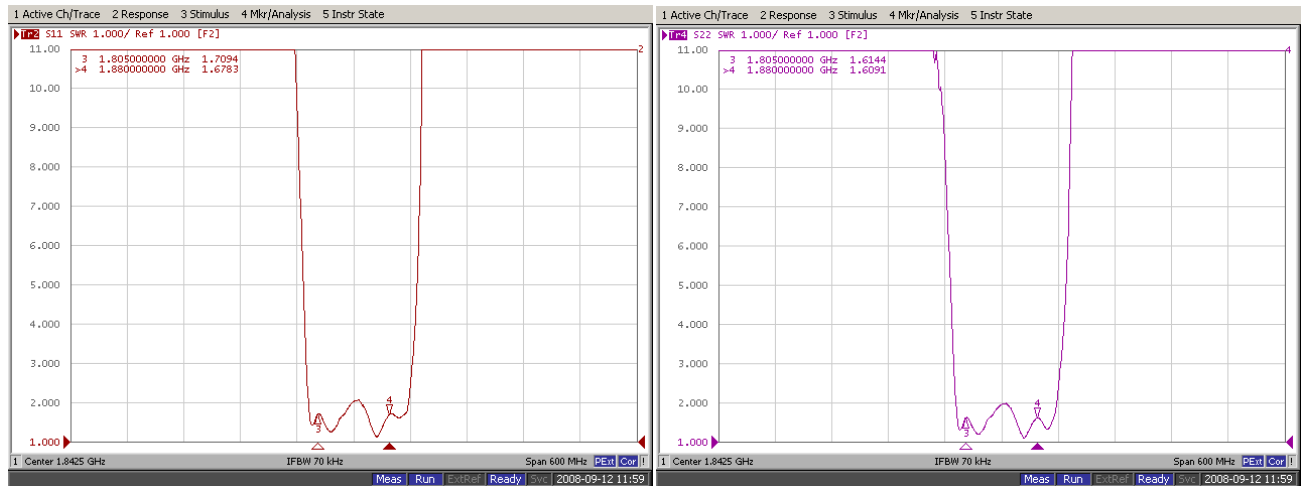
Typical Performance (at 25°C)



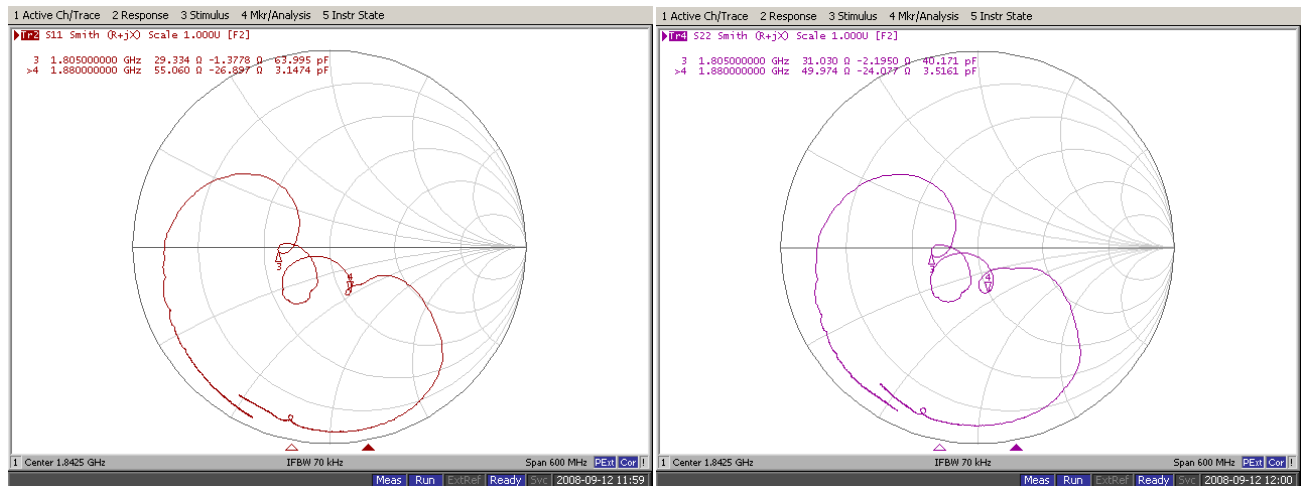
	I T F Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
		Rev. Date	2008-09-23	
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SAW Bandpass Filter F1G85

Input / Output VSWR Charts



Input / Output Smith Charts

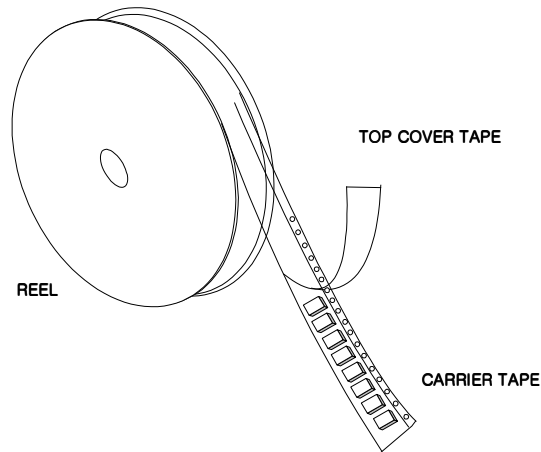


	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
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SAW Bandpass Filter F1G85

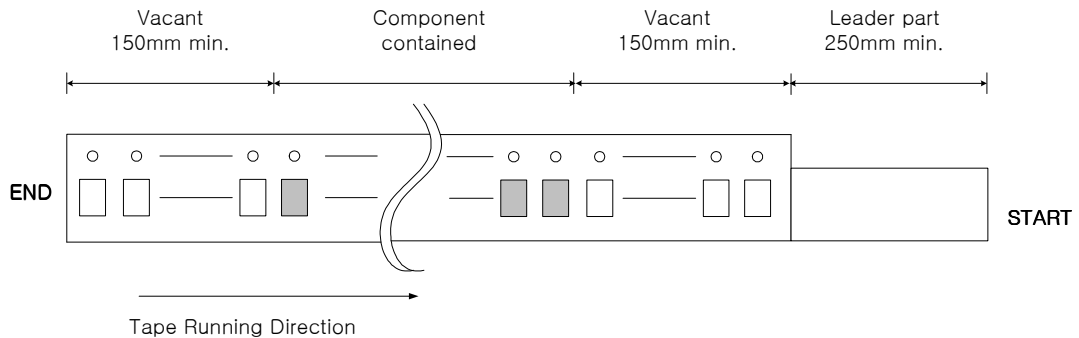
Packing Specification

1. Reeling Quantity : 3000 pcs / 13" reel (or 1000 pcs / 7" reel)
2. Taping Structure : The tape shall be wound around the reel in the direction shown below.



Tape Specification

1. Leader part and vacant position specification

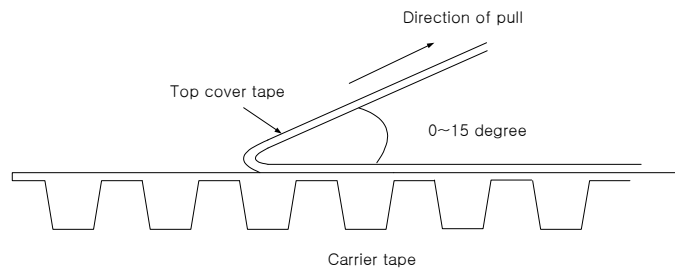


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

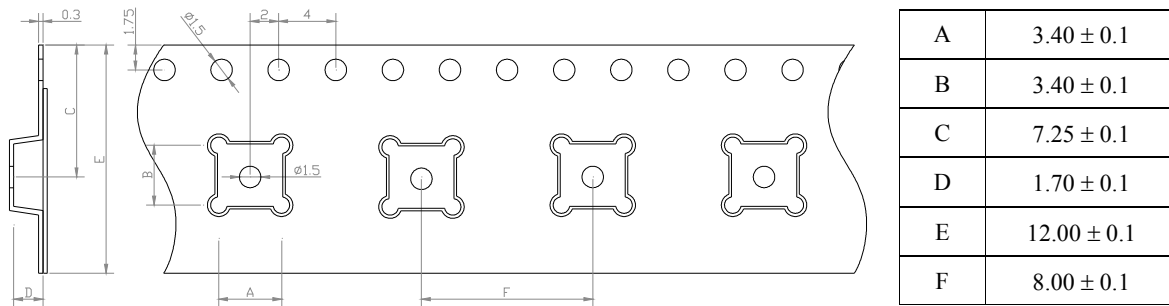
- 1) pull off angle : 0~15°
- 2) speed : 300mm/min
- 3) force : 20~70g



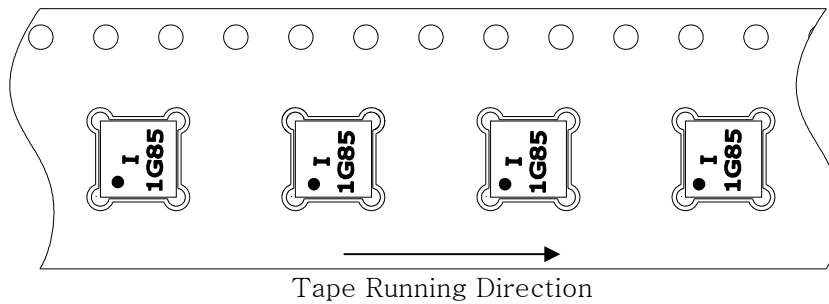
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F1G85	
		Rev. Date	2008-09-23	
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SAW Bandpass Filter F1G85

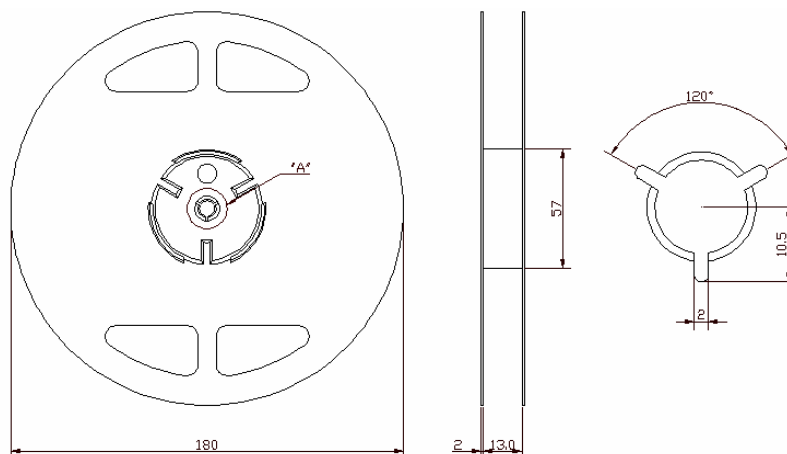
Carrier Tape Dimensions [unit : mm]



Part Direction



Reel Dimensions [unit : mm]



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