

## QO-100 UP CONVERTER BAND PASS FILTER



### TECHNICAL DATA SHEET

### OPA\_BPQO100TX

OPA\_BPQO100TX is a 2.4GHz SAW Band Pass Filter for QO-100 up converter application. The performance of this filter will guaranty a very good rejection of the local oscillator and the image frequency, inside an Up Converter system.

#### Features:

- Center Frequency: 2441MHz
- Bandwidth: 85MHz
- Insertion Loss: 2.4dB
- Input / Output Impedance: 50Ω
- Maximum Input Power: +20dBm
- SAW Technology
- SMA Connector

#### Specifications @ +25 °C, ZS = ZL = 50

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	<b>MHz</b>		2441	
Frequency Bandwidth	<b>MHz</b>		85	
Insertion Loss @ 2.4GHz	<b>dB</b>		2.4	
Return Loss @ 2.4GHz	<b>dB</b>		25	
Rejection at 1968 MHz	<b>dB</b>	35		
Rejection at 2256 MHz	<b>dB</b>	30		
Maximum Input Power	<b>dBm</b>		+20	
Maximum Input DC voltage	<b>V</b>		0	
Input/output impedance			50	

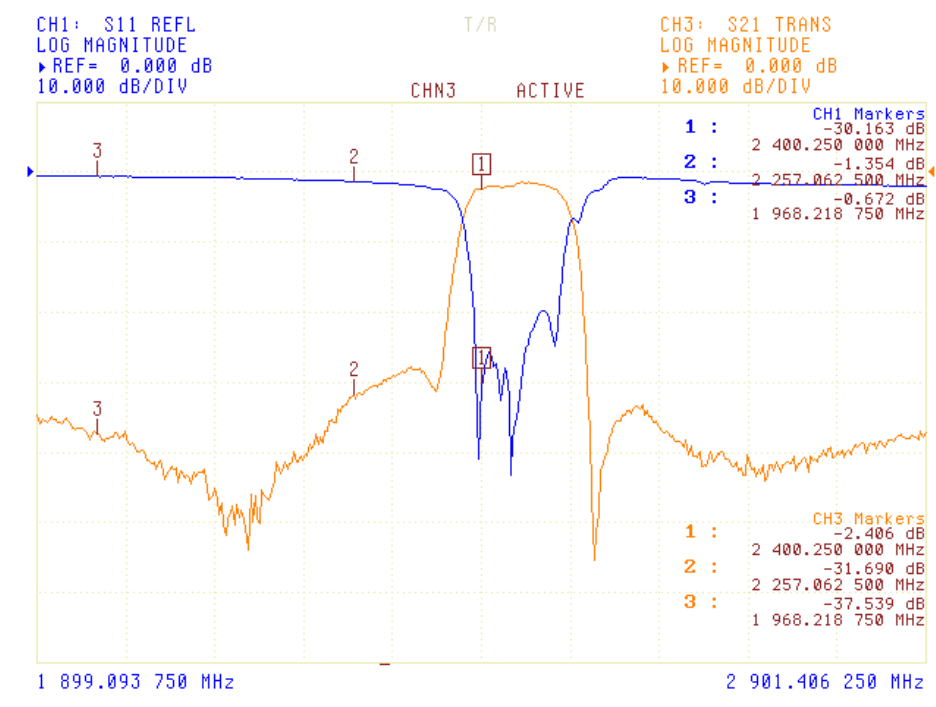
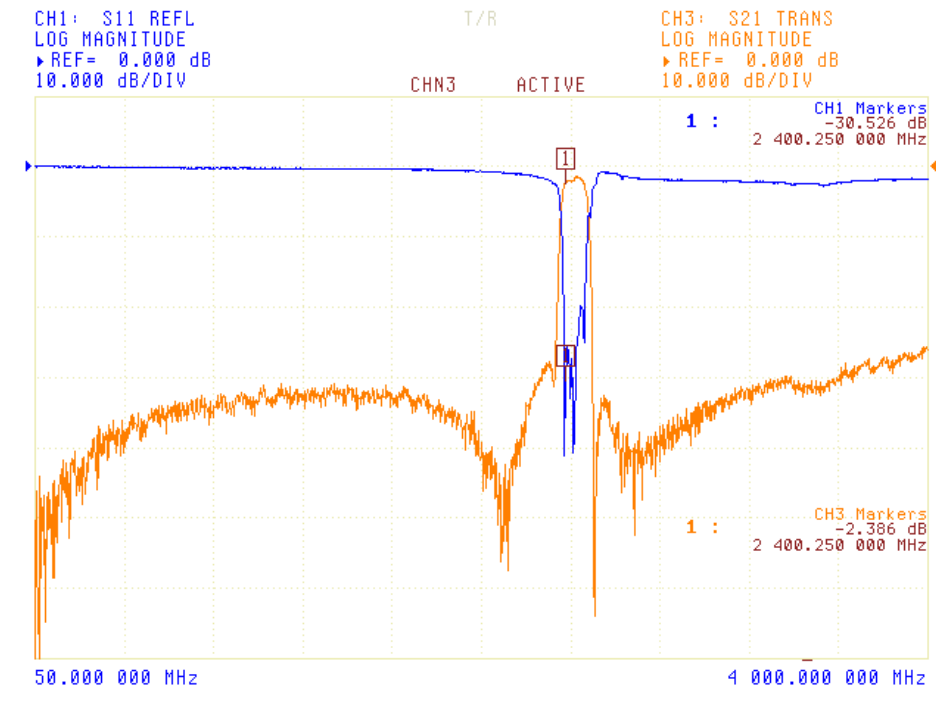
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### Typical performance data:



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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
DC Input Power	0V
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C

### Outline

