LTCC Bandpass Filter & Balun BFGE2-552R+

4900 to 5875 MHz

50Ω

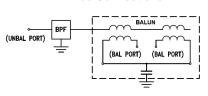
Features

- Low amplitude unbalance 0.6 dB typ.
- Small size (0.079"x0.049"x0.037")
- Temperature stable
- · Hermetically sealed

Applications

- ISM Band
- Bluetooth
- Zigbee
- WiFi / WLAN

Pad Connections



Generic photo used for illustration purposes only

CASE STYLE: GE0805C-2

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

> Available Tape and Reel at no extra cost
> Reel Size
> Devices/Reel
>
>
> 7"
> 20, 50, 100, 200, 500, 1000, 4000

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio					2		
Pass Band	Insertion Loss ¹	F1-F2	4900 - 5875	_	1.3	2.2	dB
	Return Loss	F1-F2	4900 - 5875	8.5	17	-	dB
Stop Band, Lower	Rejection		3500	30	49	_	dB
Amplitude Unbalance	9		4900 - 5875	_	1.7	_	dB
Phase Unbalance			4900 - 5875	_	4	_	degree

1. Tested on Evaluation Board TB-1034-2552+

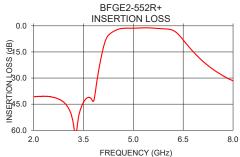
Maximum Ratings

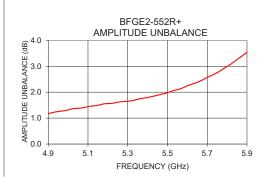
Operating Temperature	-40°C to +85°C					
Storage Temperature ¹	-40°C to +85°C					
RF Power Input ²	2W @25°C					
4. Defende warde statement terrene statement for a fille in stalleting						

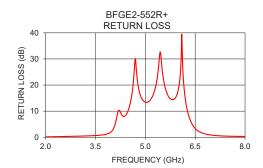
1. Refer to product storage temperature after installation Suggestion for T&R unused product storage condition: +5 ~ +35 °C, Humidity 45~75%RH, 12 month Max

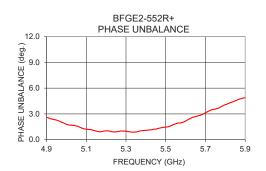
2. Derate linearly to 1W at 85°C.







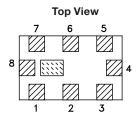




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Pad Connections

Unbalanced Port	1
Balanced Port	5, 7
GND	4,6,8
NC	3
NC or DC Feed	2

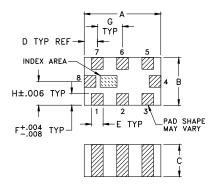
Balance Filter

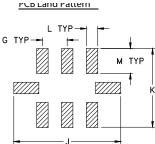
BFGE2-552R+

Frequency (GHz)	Insertion Loss (dB)	Return Loss (dB)	Amplitude Unbalance (dB)	Phase Unbalance (Deg,)	
0.50	51.50	0.05	3.65	142.87	
0.70	48.63	0.06	3.84	152.54	
1.00	45.77	0.09	3.88	160.55	
1.50	42.50	0.13	3.75	166.92	
2.00	40.77	0.18	3.43	170.40	
2.50	40.68	0.28	2.75	173.27	
3.00	45.82	0.43	1.29	177.15	
3.50	43.92	0.66	1.40	176.01	
4.00	21.29	2.47	3.24	63.58	
4.50	2.32	10.82	0.08	6.72	
4.90	1.37	14.65	1.17	2.62	
5.40	1.15	27.20	1.79	1.08	
5.876	1.67	14.71	3.40	4.77	
6.50	8.08	3.39	23.69	27.07	
7.00	18.73	0.82	8.50	166.50	
8.50	35.32	0.41	1.68	178.29	

Typical Performance Data

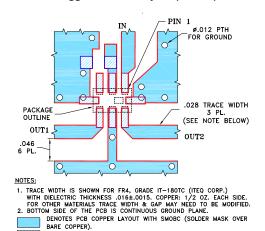
Outline Drawing





Suggested Layout, Tolerance to be within .002

Demo Board MCL P/N: TB-1034-2552+ Suggested PCB Layout (PL-551)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Dimensions (inch)

				、 <i>,</i>			
А	В	С	D	E	F	G	
.079	.049	.037	.014	.012	.012	.026	
2.01	1.24	0.94	0.36	0.30	0.30	0.66	
н	J	к	L	М		wt	
.025	.134	.104	0.014	.039		grams	
0.64	3.40	2.64	0.36	0.99		.008	

Additional Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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