




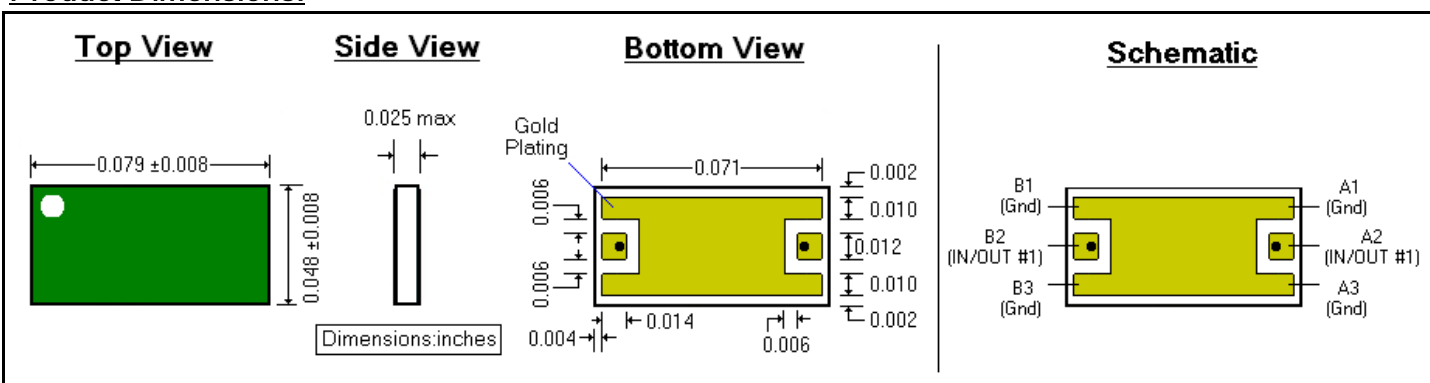
Product Family: [Bessel Absorptive Filter-5th Order, LGA](#)

Part Number Series: [FL5-LGA Series](#)


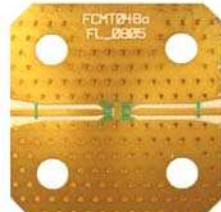
	<p>Construction:</p> <ul style="list-style-type: none"> High Purity Alumina Substrate Nickel alloy thin-film resistive element Epoxy-resin overcoat RoHS compliant and lead free (Gold terminations) Suitable for reflow processing 	<p>Features:</p> <ul style="list-style-type: none"> 0805 English Size Cutoff frequencies between 19.0GHz and 25.0GHz Low pass, Absorptive Land Grid Array (LGA) for high bandwidth Competitive pricing
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Description:
Thin Film Technology FL5, Land Grid Array (LGA) series of low pass filters are designed for cost effective use in applications where low phase dispersion and good return loss are important characteristics. The Filter performs an absorptive, low pass function that attenuates high frequencies. The high bandwidth LGA surface mount construction creates a high performance filter that is easy for you to use and can be mounted using traditional reflow processing. The standard series covers from 19.0 GHz to 25.0 GHz. This filter can be used in applications from loss emulation to adjusting optical receiver sensitivities and others.

Product Dimensions:



Marking and Recommended Land Pattern:

<p>Marking:</p>  <p>Marking Explanation:</p> <ul style="list-style-type: none"> Pin A1 Identifier Remaining marking to be determined 	<p>Recommended Land Pattern:</p>  <p>Please call the factory for DXF output of Land Pattern</p>
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Part Numbering: Ex. FL5B5BZ230S-T*-C

Product Designator	Orders	Type	Impedance	Function	Footprint	Cutoff Freq.	Custom Code	T&R Qty *	RoHS Indicator
FL	5 (5th Order)	B (Absorptive)	5 (50 ohm)	B (Bessel)	Z (6 pad LGA)	190 = 19.0 GHz, 210 = 21.0 GHz, 230 = 23.0 GHz, 250 = 25.0 GHz,	S (Standard) TBD (Custom)	-T1=100 -T5=500	-C = RoHS (not offered as non-RoHS)

*Note: T&R package quantity (-T#) will be added to the part number by us depending on the quantity ordered.

Electrical Specifications:

Parameter	Specification
English Size	0805
Metric Size	2012
Type	Absorptive Low Pass
Function	Bessel
Order	5th
Reference Impedance	50 ohms
Fo Cutoff Freq (-3dB)	19.0 to 25.0GHz in 1.0 GHz steps
Fo Cutoff Tolerance	Fo (-3dB) $\pm 5\%$ (ie 23.0 ± 1.15 GHz)
Return Loss (S11)	<10dB Loss through Fo
(S22)	<10dB Loss through Fo
Rejection	-10dB through two times Fo
Group Delay Ripple (max)	5ps Max through Fo
Rated Current	100mA
Isolation Resistance	>100Mohm @ 50Vdc
Operating Temperature	-40°C ~ +85°C
Packaging	100 or 500 pcs/reel

Please consult the factory for any desired variations to the above specifications

Frequency Performance Plots of 23 GHz Filter (typical):

