



**THE DATASHEET OF
LP0402N2442ANTR**



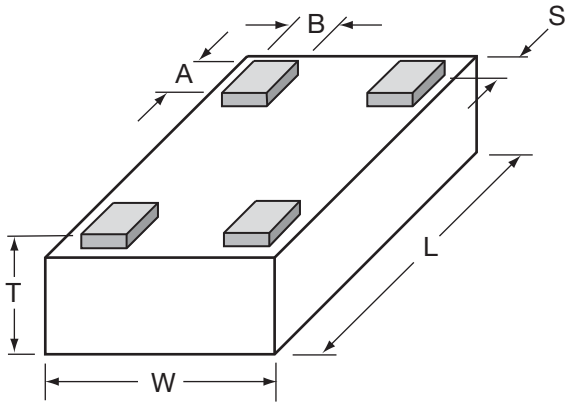
Thin-Film RF/Microwave Filters

Low Pass – Harmonic Lead-Free

LP0402N Series – LGA Termination

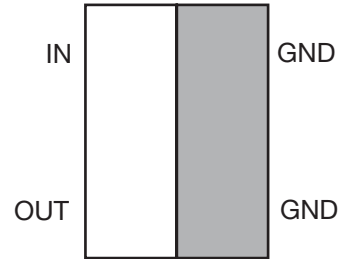


DIMENSIONS: millimeters (inches) (Bottom View)

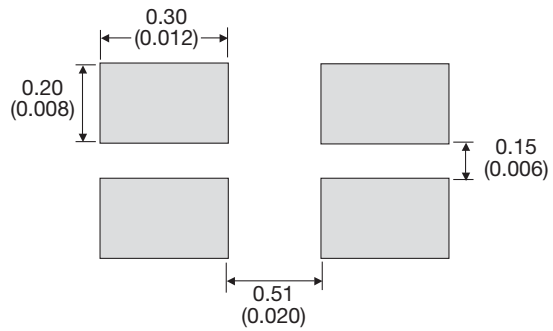


L	1.0±0.05 (0.040±0.002)	A	0.20±0.06 (0.008±0.002)
W	0.58±0.04 (0.023±0.002)	B	0.18±0.05 (0.007±0.002)
T	0.35±0.5 (0.014±0.002)	S	0.05±0.05 (0.002±0.002)

TERMINALS (TOP VIEW)



RECOMMENDED PAD LAYOUT (MM)



ELECTRICAL CHARACTERISTICS

(Guaranteed over -40°C to $+85^{\circ}\text{C}$ Operating Temperature Range)

P/N	Frequency Band [MHz]	I. Loss [dB]	R. Loss [dB]	Attenuation @ $2x F_0$ [dB]	Attenuation @ $3x F_0$ [dB]
LP0402N2442ANTR	2400-2484	0.35 typ 0.5 max	20	30	17
LP0402N2690ANTR	2640-2740	0.35 typ 0.5 max	20	30	20
LP0402N3500ANTR	3400-3600	0.3 typ 0.5 max	19	30	20
LP0402N5200ANTR	5500-5350	0.2 typ 0.5 max	19	30	20
LP0402N5500ANTR	5350-5650	0.2 typ 0.5 max	15	30	-
LP0402N5800ANTR	5600-6000	0.2 typ 0.5 max	16	25	-

NOTE: Additional Frequencies Available Upon Request



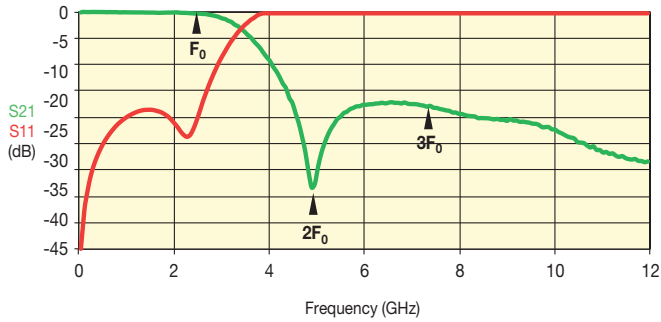
Thin-Film RF/Microwave Filters

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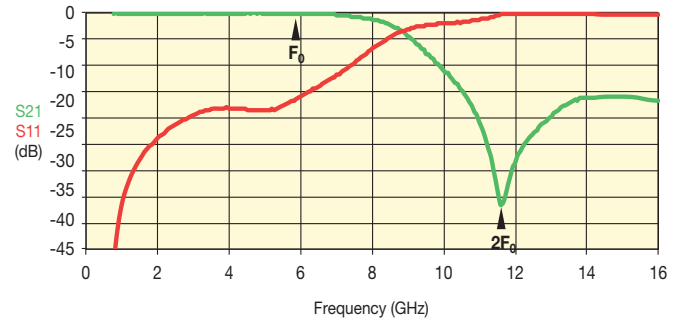
LP0402N Series – LGA Termination



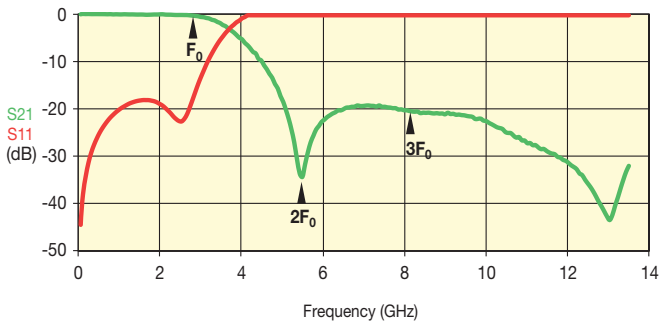
LP0402N2442ANTR



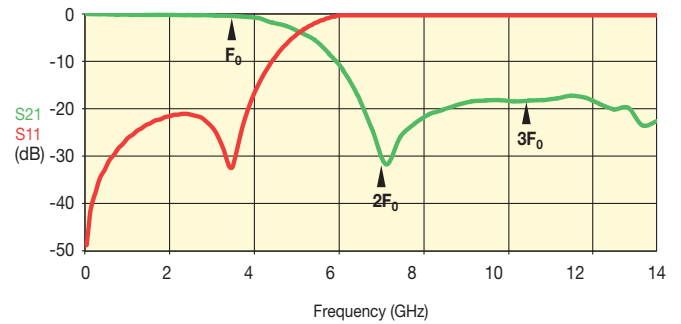
LP0402N5800ANTR



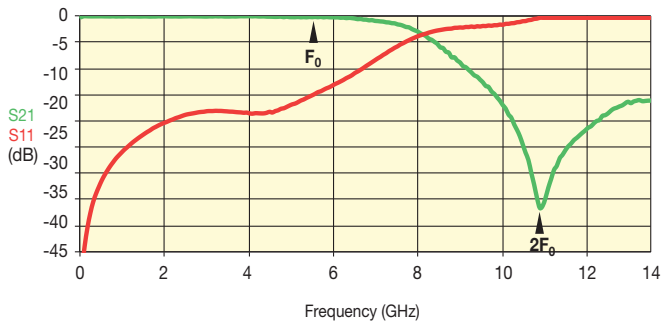
LP0402N2690ANTR



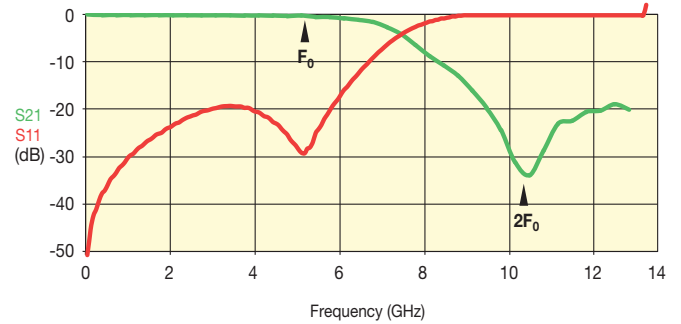
LP0402N3500ANTR



LP0402N5500ANTR



LP0402N5200ANTR



Thin-Film RF/Microwave Filters

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LP0402N Series – Test Jig

TEST JIG FOR LP0402 LOW PASS FILTER

GENERAL DESCRIPTION

These jigs are designed for testing the LP0603 LGA Low Pass Filters using a Vector Network Analyzer.

They consist of a dielectric substrate, having 50Ω microstrips as conducting lines and a bottom ground plane located at a distance of 0.127mm from the microstrips.

The substrate used is Neltec's NH9338ST0127C1BC (or similar).

The connectors are SMA type (female), 'Johnson Components Inc.' Product P/N: 142-0701-841 (or similar).

Both a measurement jig and a calibration jig are provided.

The calibration jig is designed for a full 2-port calibration, and consists of an open line, short line and through line. LOAD calibration can be done by a 50Ω SMA termination.

MEASUREMENT PROCEDURE

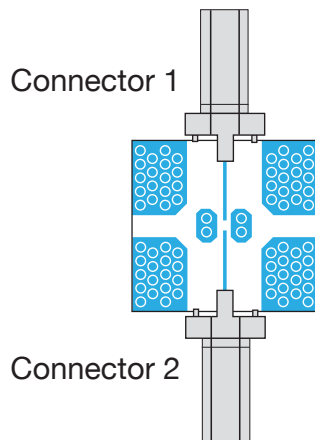
Follow the VNA's instruction manual and use the [calibration jig](#) to perform a full 2-Port calibration in the required bandwidths.

Solder the filter to the [measurement jig](#) as follows:

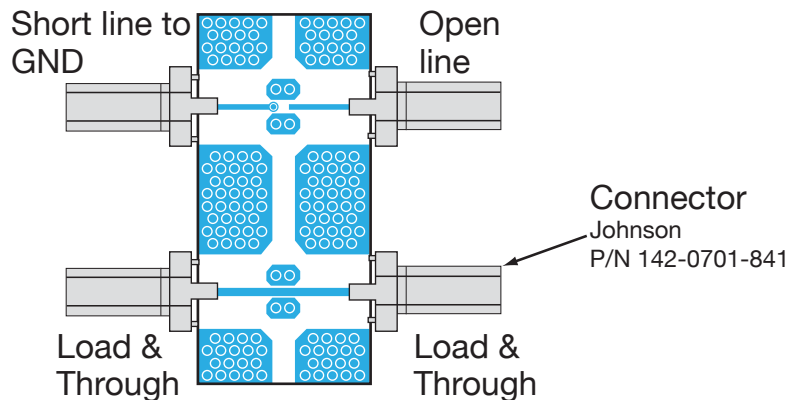
Input (Filter)	▶ Connector 1 (Jig)	GND (Filter) ▶ GND (Jig)
Output (Filter)	▶ Connector 2 (Jig)	GND (Filter) ▶ GND (Jig)

Set the VNA to the relevant frequency band. Connect the VNA using a 10dB attenuator on the jig terminal connected to port 2 (using an RF cable).

Measurement



Calibration Jig



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View LP0402N2442ANTR](#) on WIN SOURCE

 [AVX Corp/Kyocera Corp](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

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-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management