

Thin-Film RF/Microwave Filters

Low Pass – Harmonic

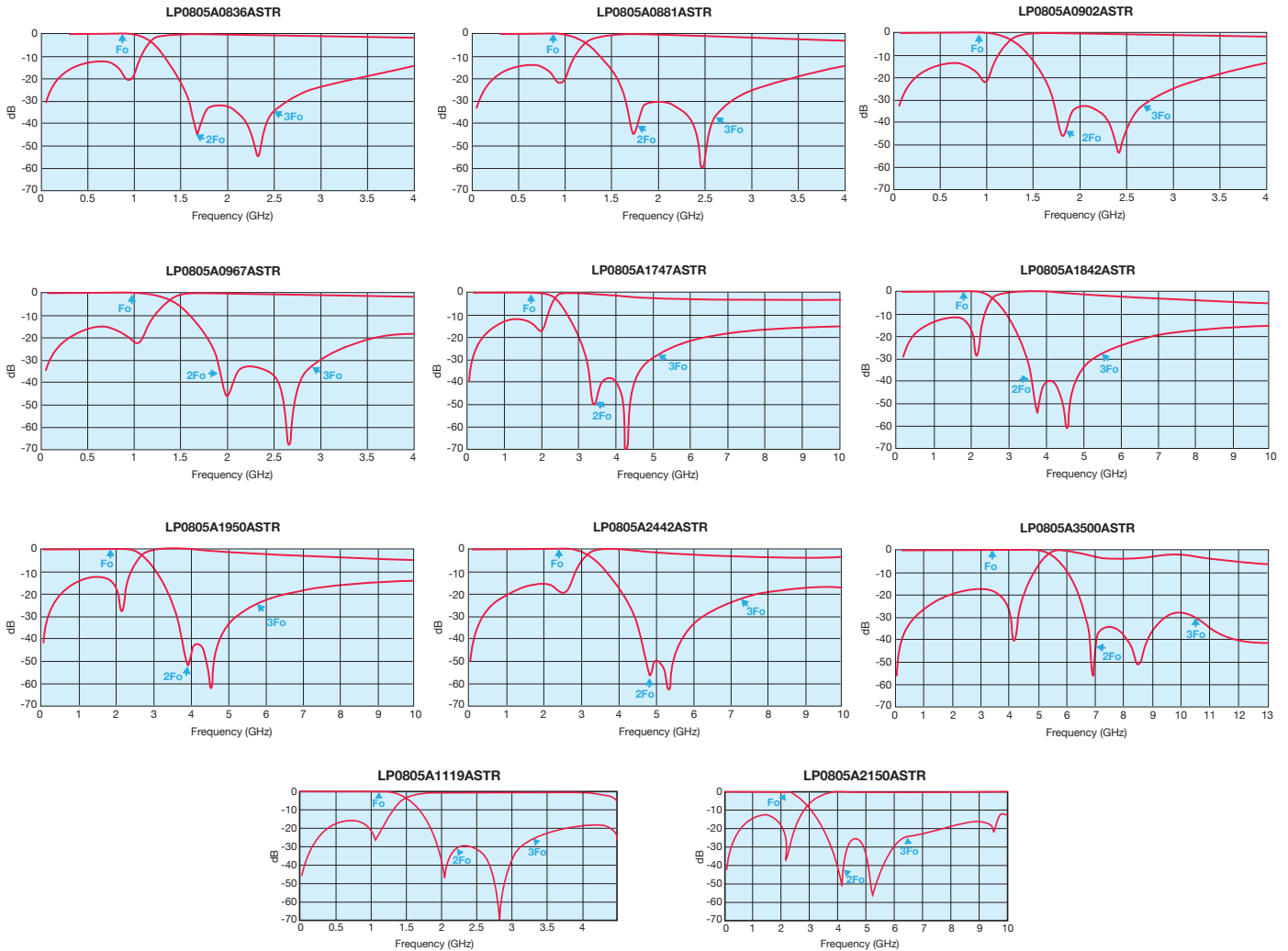
LP0805 Series – SMD Termination



ELECTRICAL CHARACTERISTICS

Application	Part Number	Frequency Band (MHz)	I. Loss max	VSWR max	Attenuation (dB) Typical	Layout Type (SnPb)	Layout Type F Marking Code
E-G SM	LP0805A0897AS	880 - 915	0.4dB (0.3dB typ)	1.7	30 @ 2X F_o 20 @ 3x F_o	A	E
	LP0805A0942AS	925 - 960				A	F
GSM	LP0805A0902AS	890 - 915				A	E
	LP0805A0947AS	935 - 960				A	F
	LP0805A1119AS	1101 - 1137				A	H
AM PS	LP0805A0836AS	824 - 849				A	A
	LP0805A0881AS	869 - 894				A	C
PCN	LP0805A1747AS	1710 - 1785				D	I
	LP0805A1842AS	1805 - 1880				D	J
PCS	LP0805A1880AS	1850 - 1910				D	K
	LP0805A1960AS	1930 - 1990				D	M
PHP	LP0805A1907AS	1895 - 1920				D	L
DECT	LP0805A1890AS	1880 - 1900				D	K
3G	LP0805A2150AS	1905 - 2180				D	N
Wireless LAN	LP0805A2442AS	2400 - 2484				D	S
	LP0805A3500AS	3400 ~ 3600				E	X

Typical Electrical Performance



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

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LP0805 Series – Test Jig

ITF TEST JIG FOR LOW PASS FILTER 0805

GENERAL DESCRIPTION

These jigs are designed for testing the LPF0805 Low Pass Filters using a Vector Network Analyzer.

They consist of a dielectric substrate, having 50W microstrips as conducting lines and a bottom ground plane located at a distance of 0.254 mm from the microstrips.

The substrate used is RF-35-0100-C1B107 (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 50W SMA termination.

MEASUREMENT PROCEDURE

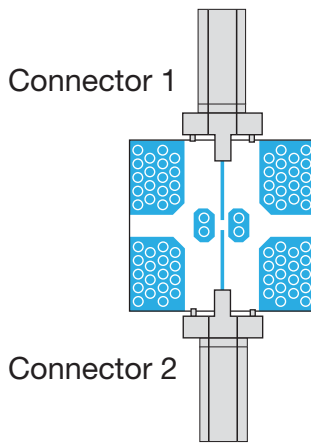
Follow the VNA's instruction manual and use the [calibration jig](#) to perform a full 2-Port calibration in the required bandwidths.

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

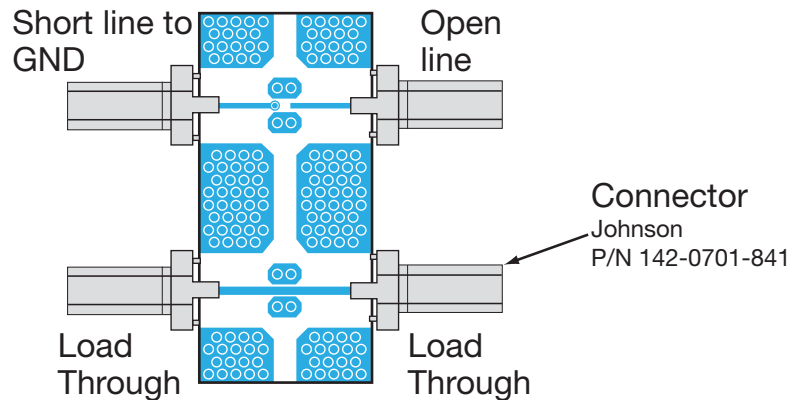
Input (Filter)	↗ Connector 1 (Jig)	GND (Filter) ↘ GND (Jig)
Output (Filter)	↗ Connector 2 (Jig)	GND (Filter) ↘ GND (Jig)

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



Mouser Electronics

Authorized Distributor

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Kyocera AVX:

[LP0805A1842AWTR](#) [LP0805A1890AWTR](#) [LP0805A3500AWTR](#) [LP0805A0836AWTR](#) [LP0805A0881AWTR](#)
[LP0805A0897AWTR](#) [LP0805A0967AWTR](#) [LP0805A1950AWTR](#) [LP0805A2150AWTR](#) [LP0805A3500ASTR](#)
[LP0805A0902ASTR](#) [LP0805A0902AWTR](#) [LP0805A0942AWTR](#) [LP0805A0947AWTR](#) [LP0805A1119AWTR](#)
[LP0805A1747AWTR](#) [LP0805A1880AWTR](#) [LP0805A1907AWTR](#) [LP0805A1960AWTR](#) [LP0805A2442AWTR](#)
[LP0805A2750AWTR](#) [LP0805A0836ASTR](#) [LP0805A1842ASTR](#) [LP0805A2442ASTR](#) [LP0805A2600ASTR](#)
[LP0805A0947ASTR](#) [LP0805A2150ASTR](#) [LP0805A0897ASTR](#) [LP0805A1800ASTR](#) [LP0805A1880ASTR](#)
[LP0805A1900ASTR](#) [LP0805A1950ASTR](#) [LP0805A2100ASTR](#) [LP0805A2750ASTR](#) [LP0805A0811AWTR](#)
[LP0805A0881ASTR](#) [LP0805A1747ASTR](#) [LP0805A1119ASTR](#) [LP0805A0800AWTR](#) [LP0805A2590ASTR](#)
[LP0805A2350ASTR](#) [LP0603A1842ANTR\500](#) [LP0603A2140ANTR\500](#) [LP0603A1950ANTR\500](#)
[LP0603A1747ANTR\500](#) [LP0603A0947ANTR\500](#) [LP0805A2150AWTR\500](#) [LP0603A2442ANTR\500](#)
[LP0603A1880ANTR\500](#) [LP0603A0902ANTR](#) [LP0805A3500ASTR\500](#) [LP0805A2590AWTR](#) [LP0805A1747ASTR\500](#)
[LP0805A1119ASTR\500](#) [LP0805A2442ASTR\500](#) [LP0805A0942ASTR](#) [LP0805A1960ASTR](#) [LP0805A0967ASTR](#)
[LP0805A1907ASTR](#) [LP0805A2700ASTRNOK](#) [LP0805H0942ASTR](#) [LP0805H1000ASTR](#)