Thin-Film RF/Microwave Filters

Low Pass – Harmonic

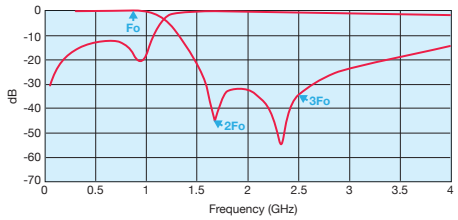
LP0805 Series – SMD Termination

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 @ 2XFo 20 @ 3xFo	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
WLL	LP0805A3500AS	3400 ~ 3600				E	X

Typical Electrical Performance

LP0805A0836ASTR



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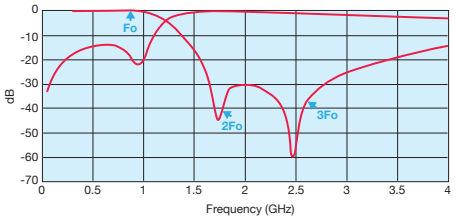

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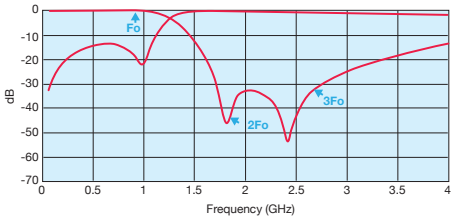

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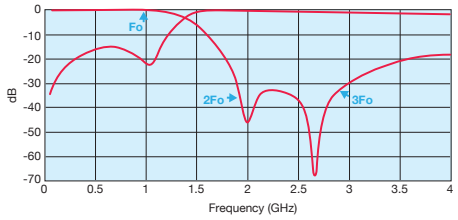

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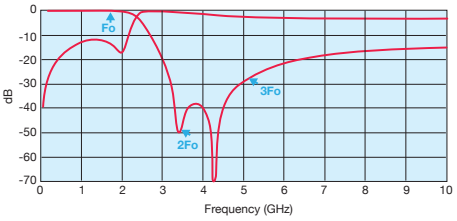

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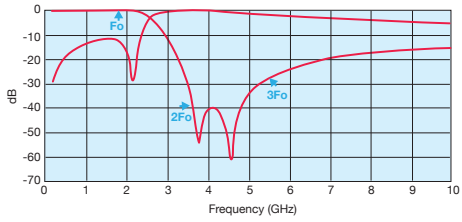

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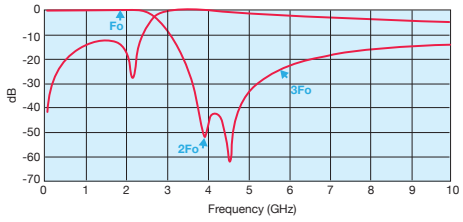

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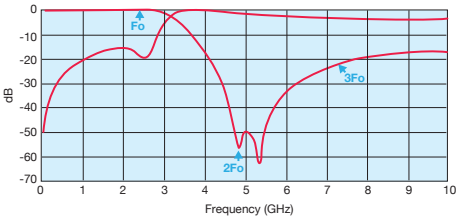

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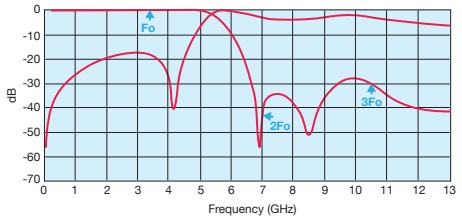

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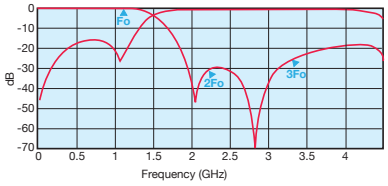

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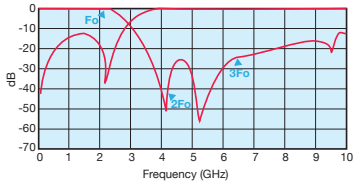


ITF TEST JIG FOR LOW PASS FILTER 0805

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

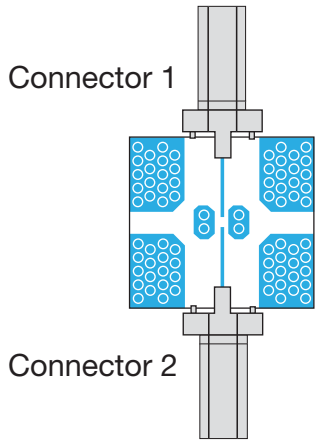
Follow the VNA's instruction manual and use the calibration jig to perform a full 2-Port calibration in the required bandwidths.

Solder the filter to the measurement jig as follows:

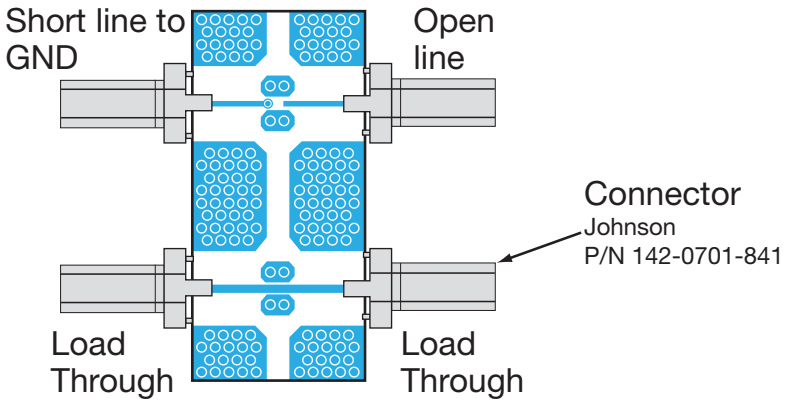
Input (Filter)	➧ Connector 1 (Jig)	GND (Filter)	➧ GND (Jig)
Output (Filter)	➧ Connector 2 (Jig)	GND (Filter)	➧ GND (Jig)

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