Thin-Film RF/Microwave Filters Low Pass – Harmonic LP0805 Series – SMD Termination

GENERAL DESCRIPTION

The ITF (Integrated Thin-Film) SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

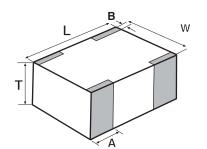
FEATURES

- Small Size: 0805
- Frequency Range: 800MHz 3.5GHz
- Characteristic Impedance: 500 •
- Operating / Storage Temp.: -40°C to +85°C •
- Power Rating: 3W Continuous ٠
- Low Profile •
- Rugged Construction •
- Taped and Reeled •

APPLICATIONS

- Mobile Communications
- Satellite TV Receivers
- . GPS
- Vehicle Location Systems •
- Wireless LAN's

DIMENSIONS: millimeters (inches)



L	2.03±0.1 (0.080±0.004)			
w	1.55±0.1 (0.061±0.004)			
т	1.02±0.1 (0.040±0.004)			
Α	0.56±0.25 (0.022±0.010)			
в	0.35±0.15 (0.014±0.006)			

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PAD LAYOUT

See CP0805 pad layout on page 64

FINAL QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_P 4 hours

TERMINATION

Nickel/Solder coating (Sn, Pb) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

HOW TO ORDER



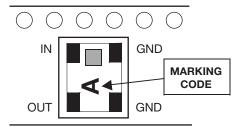
**RoHS compliant



RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

TERMINALS AND LAYOUT (TOP VIEW) ORIENTATION IN TAPE



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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
	LP0805A0902AS	890 - 915				A	E
GSM	LP0805A0947AS	935 - 960				A	F
	LP0805A1119AS	1101 - 1137				A	Н
	LP0805A0836AS	824 - 849				A	А
AM PS	LP0805A0881AS	869 - 894				A	С
PCN	LP0805A1747AS	1710 - 1785				D	I
PUN	LP0805A1842AS	1805 - 1880				D	J
PCS	LP0805A1880AS	1850 - 1910				D	К
P63	LP0805A1960AS	1930 - 1990				D	М
PHP	LP0805A1907AS	1895 - 1920				D	L
DECT	LP0805A1890AS	1880 - 1900				D	К
3G	LP0805A2150AS	1905 - 2180				D	Ν
Wireless LAN	LP0805A2442AS	2400 - 2484				D	S
WLL	LP0805A3500AS	3400 ~ 3600				E	Х

Typical Electrical Performance

LP0805A0881ASTR

-10

-20

-30

-40

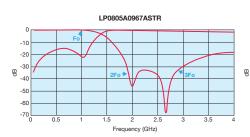
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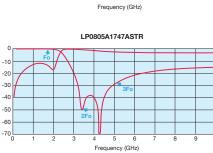
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-70 L

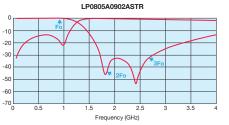
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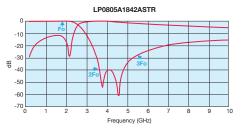


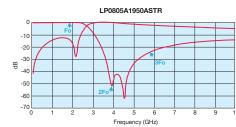
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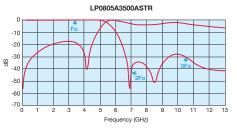
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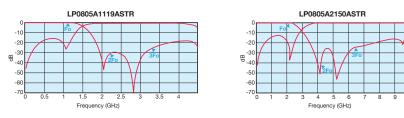
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ITF TEST JIG FOR LOW PASS FILTER 0805

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.

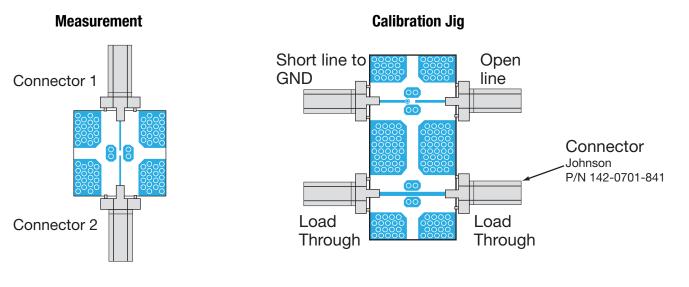
MEASUREMENT PROCEDURE

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).



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