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TTE Introduces RF & Microwave Filters Available from Stock

Lowpass Chebyshev "LC9S" Series Addresses Market Need for Off-the-Shelf Convenience

Los Angeles, CA (USA) – TTE Filters, a US-based manufacturer of high-reliability RF filters and microwave filters for demanding communication and signal processing applications, announced the introduction of a stocked Lowpass Chebyshev passive filter series – LC9S – providing off-the-shelf convenience and immediate delivery. The series was featured at the 84th Microwave Measurement Conference in Boulder, Colorado earlier this month.

TTE has been manufacturing filters in the USA since 1956 and has particular expertise in short lead times. Expedited lead time as short as 3-5 days is available on many built-to-order filter designs. TTE's new LC9S is a high-quality filter series offered from inventory with competitive pricing and same day shipment. This series addresses the market need of customers requiring immediate availability – when 3 to 5 days is not fast enough.

The 9-pole filters in the LC9S Series deliver fast roll-off, an insertion loss of 1.0dB maximum and 50 Ohm terminations. Nine part numbers are available, each at a specific -1dBc passband frequency, from 30 MHz to 3 GHz. The series offers stopband attenuation of -40dBc at 1.5:1 ratio (rejection frequency from 45 MHz to 4.5 GHz) and -60dBc at 2:1 ratio (rejection frequency from 60 MHz to 6 GHz). Depending on frequency, the filters have input power of 5 or 10 watts max and utilize one of two SMA female connectorized cases. Operating temperature is 0°C to +70°C. RoHS-compliant parts are available.

LC9S filters are designed for use in cellular, data acquisition, electronic support, radar, satellite, sonar, telecommunication, telemetry and wireless applications in commercial, industrial, medical and military/defense environments.

A Summary Table of Data for the LC9S Series is provided below (next page). Complete technical information is available at the company's website:

- **LC9S Product Information:** <http://tte.com/products/passive-filters/lowpass-filters/chebyshev-lc9s/>
- **LC9S Datasheet:** http://tte.com/wp-content/uploads/2014/12/TTE_LC9S_Datasheet_12032014.pdf
- **LC9S Graphs:** http://tte.com/wp-content/uploads/2014/10/TTE_LC9S_Graphs_10292014.pdf
- **LC9S Case Info:** http://tte.com/wp-content/uploads/2014/10/TTE_LC9S_CaseInfo_10302014.pdf

Pricing for the LC9S Series starts at \$170 US Funds per part in volume. For technical assistance, part pricing, application-specific variations, or other information please contact TTE at +1-310-478-8224 or tte@tte.com.

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LC9S Product Information: Summary Table of Data for LC9S Series of Lowpass Chebyshev Filters:

Part Number	Frequency -1dBc (MHz)	Input Power Maximum (W)	Stopband 1 Attenuation (dBc)	Stopband 1 Frequency (MHz)	Stopband 2 Attenuation (dBc)	Stopband 2 Frequency (MHz)
LC9S*-30M-50-1765A	30	5	-40	45	-60	60
LC9S*-100M-50-1765A	100	5	-40	150	-60	200
LC9S*-225M-50-1765A	225	10	-40	337	-60	450
LC9S*-300M-50-1765A	300	10	-40	450	-60	600
LC9S*-400M-50-1765A	400	10	-40	600	-60	800
LC9S*-700M-50-1765A	700	10	-40	1050	-60	1400
LC9S*-1000M-50-2A	1000	10	-40	1500	-60	2000
LC9S*-2000M-50-2A	2000	10	-40	3000	-60	4000
LC9S*-3000M-50-2A	3000	10	-40	4500	-60	6000

*For RoHS compliant, insert "R" in place of asterisk. Example: LC9SR-30M-50-1765A

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