LT Series

TRADITIONAL Pb

RoHS COMPLIANT

Bessel

Frequency Range from 100 Hz to 200 MHz

Application-Specific Designs

SERIES NUMBER	NUMBER OF POLES	INSERTION LOSS at 0.1 x f_{-3dBc} dB MAXIMUM	STOPBAND ATTENUATION dBc MINIMUM	STOPBAND FREQUENCY
FREQUENCY $_{-3dBc}$ – 100 Hz to 200 MHz – specify any f within that range				
LT3	3	0.5	-40	7.0 x f_{-3dBc}
LT4	4	0.5	-40	5.0 x f_{-3dBc}
LT5	5	0.5	-50	5.3 x f_{-3dBc}
LT6	6	0.5	-60	5.8 x f_{-3dBc}
LT7	7	0.5	-60	5.0 x f_{-3dBc}
LT8	8	0.5	-60	4.5 x f_{-3dBc}
LT9	9	0.5	-60	4.3 x f_{-3dBc}
LT10	10	0.5	-60	4.1 x f_{-3dBc}

Note: TTE's products are made in the USA. Application-specific designs are made to order. Typical delivery is 2 weeks. Expedited lead time of 3-5 days is available on many products.

For RoHS compliant, add "R" to part number. Example: LT9R-144K-50-1335

TTE designates a component RoHS-compliant by adding "R" (RoHS) within the part number.

These RoHS components meet the ≤ 0.1% lead requirement and they are compatible with 260°C soldering processes.

NOTES:

- Operating Temperature Range: 0°C to +70°C
- Number of Poles: 3 to 10
- VSWR: 1.5:1 Typical
- Input Power: 20 mW
- Case Type: Refer to **Case Selection Guide**
- Case Options: PCB, SMT, BNC or SMA
- Normalized Response: Refer to **Graphs**
- Product Info: Refer to **LT Series**

TERMINATIONS:

50 Ω	100 MHz - 200 MHz
50 Ω or 75 Ω	300 kHz - 100 MHz
1 kΩ - 50 Ω	10 kHz - 300 kHz
10 kΩ - 1 kΩ	100 Hz - 10 kHz

STOPBAND FREQUENCY CALCULATIONS:

Using part number LT9-144K-50-1335, we know that the filter is a 9 pole Bessel lowpass filter. Scroll down to series number LT9. Moving to the right we find the stopband specification listed as -60dBc minimum at 4.3 x f_{-3dBc}. Thus, the -60dBc frequency is at 619.2 kHz (4.3 x 144 kHz).

PART NUMBER DERIVATION:

LT9	*(R)	-144K	-50	-1335
1	2	3	4	5	6

1) Series, LT
2) Number of poles, 9
*3) "R" RoHS compliant. Allow for longer lead time.
4) f_{-3dBc}
5) Terminations
6) Case selection from the case selection guide.

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