

SE Series



Elliptical Function

Frequency Range from 5 MHz to 100 MHz

Application-Specific Designs

SERIES NUMBER	NUMBER OF POLES	INSERTION LOSS at 0.1 x f _{-3dBc} dB MAXIMUM	ATTENUATION dBc MINIMUM	STOPBAND
				FREQUENCY
FREQUENCY _{-3dBc} – 5 MHz to 100 MHz – specify any f within that range				
SE24	5	0.5	-40	1.50 x f _{-3dBc}
SE26	5	0.5	-60	2.20 x f _{-3dBc}
SE34	7	0.5	-40	1.15 x f _{-3dBc}
SE36	7	0.5	-60	1.35 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: SE36-80M-50-585

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: 5 or 7
- VSWR: 1.5:1 Typical
- Input Power: 20 mW
- Case Type: Refer to **Case Selection Guide**
- Case Options: PCB or SMT
- Normalized Response: Refer to **Graphs**
- Product Info: Refer to **J Series**

TERMINATIONS:

50 Ω or 75 Ω 5 MHz - 100 MHz

STOPBAND FREQUENCY CALCULATIONS:

Using part number SE36-80M-50-585, we know that the filter is a 7 pole Elliptical Function lowpass filter. Scroll down to series number SE36. Moving to the right we find the stopband specification listed as -60dBc minimum at 1.35 x f_{-3dBc}. Thus, the -60dBc frequency is at 108 MHz (1.35 x 80 MHz).

PART NUMBER DERIVATION:

SE36 *(R) -80M -50 -585
1 2 3 4 5

- 1) Series, SE36 (which has 7 poles)
- * 2) "R" RoHS compliant. Allow for longer lead time.
- 3) f_{-3dBc}
- 4) Terminations
- 5) Case selection from the case selection guide.