

H Series





TTE Designs

Frequency Range from 100 Hz to 200 MHz Application-Specific Designs

SERIES	NUMBER OF	INSERTION LOSS	STOPBAND ATTENUATION					
NUMBER	POLES	at 5.0 x f _{-3dBc} dB MAXIMUM	dBc MINIMUM	FREQUENCY				
FREQUENCY _{-3dBc} - 100 Hz to 200 MHz - specify any f within that range								
H83	9	0.5	-40	0.75 x f _{-3dBc}				
H93	11	0.5	-40	0.80 x f _{-3dBc}				
H73	7	0.5	-60	0.45 x f _{-3dBc}				
H87	9	0.5	-60	0.65 x f _{-3dBc}				
H97	11	0.5	-60	0.70 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: H87R-5M-50-65B

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

These RoHS components meet the \leq 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: 7, 9 or 11

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 H 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 H87-5M-50-65B, we know that the filter is a 9 pole TTE-designed highpass filter. Scroll down to series number H87. Moving to the right we find the stopband specification listed as -60dBc minimum at 0.65 x f _{-3dBc}. Thus, the -60dBc frequency is at 3.25 MHz (0.65 x 5 MHz).

PART NUMBER DERIVATION:

H87	*(T)	**(R)	-5M	-50	-65B	
1	2	3	4	5	6	

- 1) Series, H87 (which has 9 poles)
- *2) The "T" option specifies a filter with low THD for ADC/DAC testing. When selected the minimum THD is > -80dBc, -96dBc typical. Testing requires a bandpass filter.
- **3) "R" RoHS compliant. Allow for longer lead time.
- 4) f_{-3dBc}
- 5) Terminations
- 6) Case selection from the case selection guide. "T" option cases are larger than standard.

