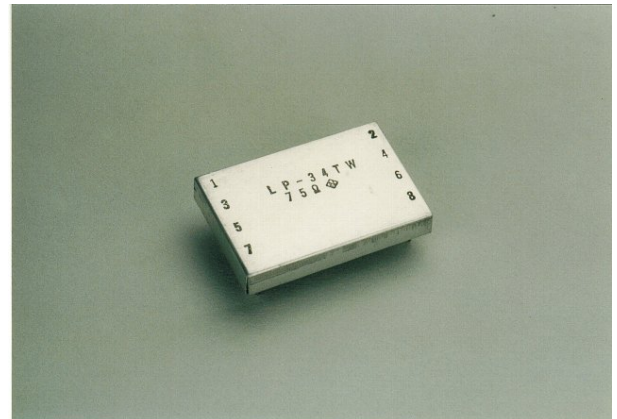


RMS-DC CONVERTER
LP-34B, LP34TW



Features and Applications

True RMS-DC converter.

RMS of AC input, those are RF, AC distortion or noise signals at the input terminal change at the output terminal to stable DC voltage. Input voltage warms thin film resistor, small temperature rises of the resistor convert to DC voltage through thin film thermocouples.

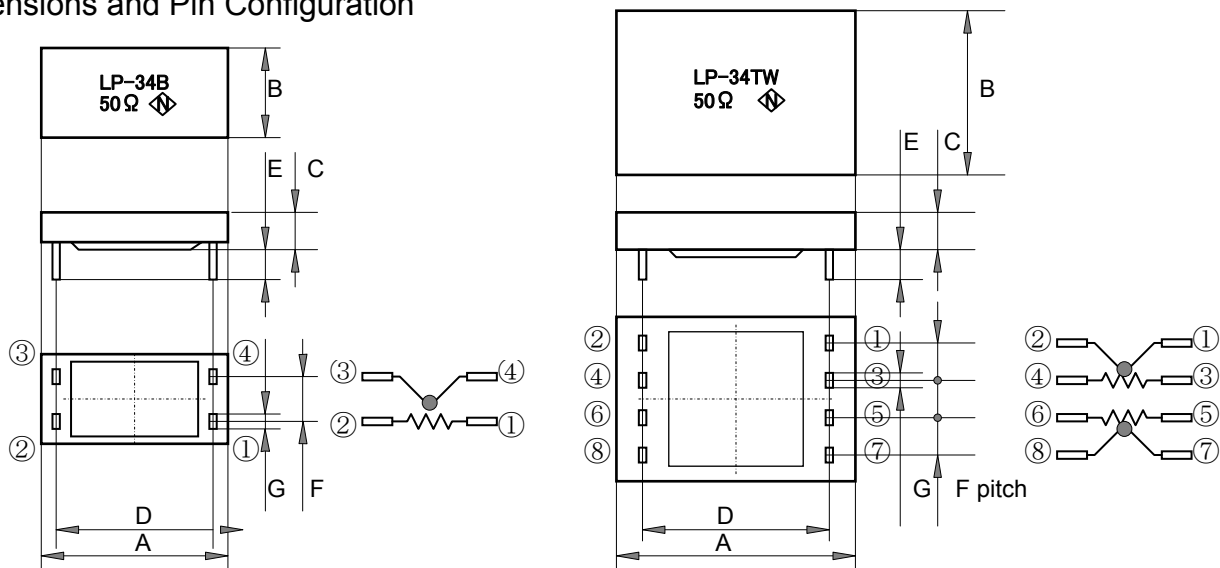
Realizes fast response time and stable conversion sensitivity.

LP34TW houses dual resistor-thermocouple pair and the dual balanced type has more stable characteristics in ambient temperature changes.

Tiny smd detector for DC to a few GHz applications also available. Please contact the factory.

For RF power measurements, RMS-DC conversion, and thermal converter applications.

Dimensions and Pin Configuration



Type	A	B	C	D	E	F	G
LP34B	25.0	12.5	4.5	20.5	5.0	5.08	0.4
LP34TW	32.0	22.0	5.5	25.5	3.5	5.08	0.4

RMS-DC CONVERTER

LP-34B, LP34TW

Ordering Information

Ordering P/N	Type	TC	Resistance	Resistance Tolerance	Additional Code	Remarks
LP34B-50ohmK	LP-34B	-	50ohm	K	000	Bulk only
LP34TW-75ohmK	LP-34TW	-	75ohm	K	000	Bulk only

Specifications and Performances

Type	LP-34B, Single	LP-34TW, Dual	Conditions
INPUT			
Rated Power	10mW	10mW	
Max Applied Power	20mW	20mW	
Resistance	50Ω or 75Ω	50Ω or 75Ω	
TCR	+/-100ppm/K	+/-100ppm/K	
Tolerance	+5% , - 30%	+5% , - 30%	
Ratio	-	5%	
Frequency Range	DC-120MHz	DC-20MHz	
OUTPUT			
Sensitivity	> 2.0mV/mW	> 1.4mV/mW	
TC of Sensitivity	(-0.2% +/- 0.1%)/C	(-0.2% +/- 0.1%)/C	
Linearity Error	< 1.5% / 1mV-13mV	-	
Diff. of Linearity	-	< +/- 2.0%	
Diff. of Sensitivities	-	< +/- 8.0%	
Internal Resistance	< 3KΩ	< 12KΩ	
Response Time	< 0.3 seconds	< 0.3 seconds	63% response
Operating Temp.	-10C – 60C	-10C – 60C	
Storage Temp.	-20C – 80C	-20C – 80C	
Weight			

