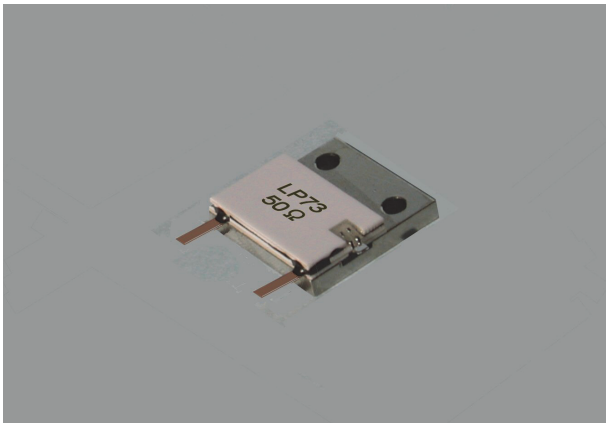
RMS-DC THERMAL CONVERTER
LP73F



Features and Applications

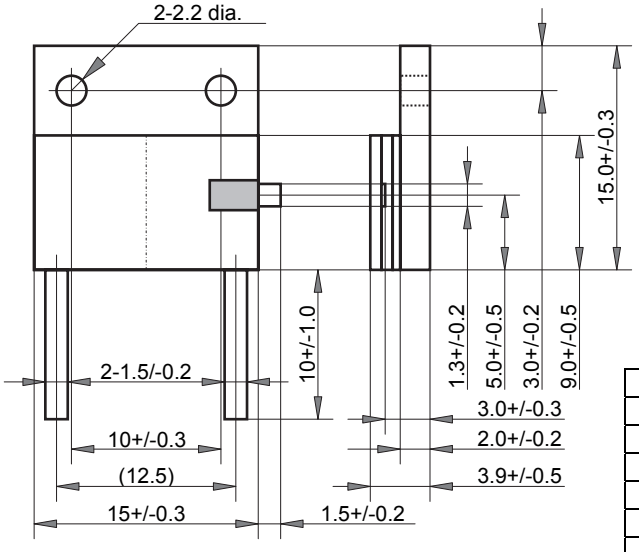
True RMS-DC converter.

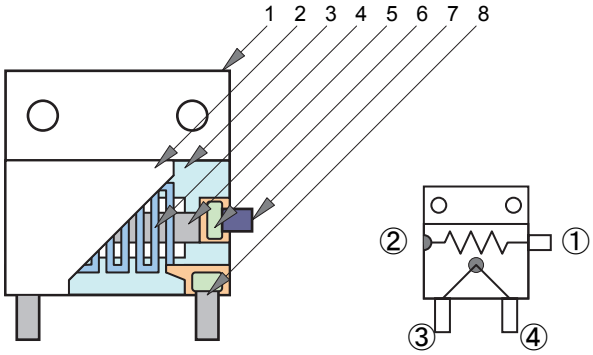
LP73F converts AC/RF input voltage to DC output volt.

Output voltage shows rms power of modulated wave form, waveform with distortion and noise waveform. Wide frequency range operation and long-life operation are available.

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

Dimensions (mm), Pin configuration and Materials





No.	Substances	Materials	Remarks
1	Flange, input common	Ni plated Cu	
2	Ceramic cover	ALO	
3	Ceramic frame	ALO	
4	Thermocouples	Bi & Sb	
5	Input resistance	Ni-Cr	
6	Internal junction	In alloy	
7	Input terminal	Bronze phosphor	
8	Output terminals	Cu foil	

Ordering Information

Model	TCR	Input Resistance	Tolerance	Additional	Remarks
LP73F	A	50ohm	K	Z00	

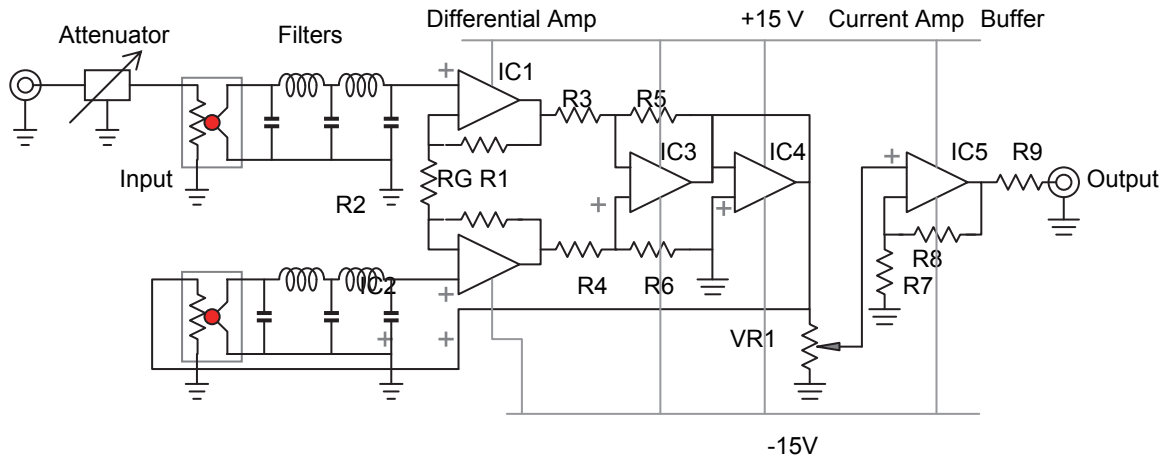
LP73F	A(100ppm/C)	50ohm 75ohm	K(10%)	Z00

RMS-DC CONVERTER LP73F

Specifications and Performances

INPUT		
Rating Power	10mW	
Max Applied Power	30mW	For 10 seconds
Resistance	50ohm or 75ohm +/-10%	.
TCR	+/-100ppm/deg C	
Tolerance		
Frequency Range	DC-120MHz	DC-1GHz at voltage driven input, not 50ohm
OUTPUT		
Sensitivity	13mV+/-2mV/10mW	
TC of Sensitivity	(-0.2% +/- 0.1%)/deg C	
Linearity	< 98%	At output voltage 1-13mV
Internal Resistance	2kohm+/-1kohm	
Response Time	<1 seconds	63% response
Terminal strength	> 9.8N	Pull
Insulation Resistance	> 20Mohm	Base plate to terminals
Operating Temp.	-10 – 60 deg C	
Storage Temp.	-20 – 80 deg C	
Weight	4.3g	

Note
Recommended soldering temperature is 220-230 deg C soldering iron with heat-insulating clip.
Mechanical shock in transportation and handling shall be kept away.
Electric static discharge shall be escaped.



An application of LP73F, RMS-DC conversion.

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