# THERMAL CONVERTERS

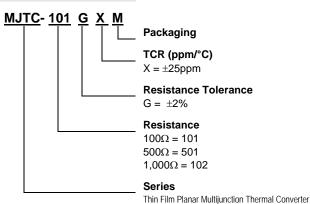
Greencity AAC ® The content of this specification may change without notification 10/16/07



# **MJTC Series - Thin-Film Planar Multijunction Thermal Converters**

Custom solutions are available.

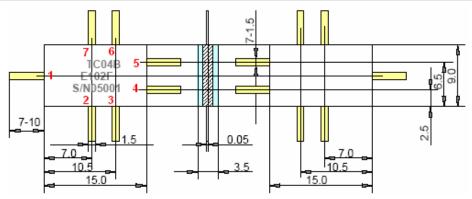
### **HOW TO ORDER**



#### **FEATURES**

- Improved high-frequency ac-dc transfer differences
- Special thin-film thermopile technology
- Good thermal coupling and high electric isolation between the input and output circuits.
- Sensitivity of 10-6 to 10-7 for comparing rms power between AC and DC input voltages.
- Frequency characteristic of better than 0.001% in the frequency range of 10 Hz to 100 kHz, and better than 0.01% at 100kHz to 1 MHz.

#### **DIMENSIONS & CONFIGURATION**

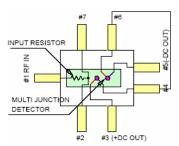


	Pin Legend		
	1	Input Hi	
	2	Input Lo, Internal Connect to 7	
	DC Output + (1)		
	4 DC Output - (1)		
5 DC Output - (		DC Output - (2)	
	6	DC Output + (2)	
	7	Input Lo, Internal Connect to 2	

### **SPECIFICATIONS & PERFORMANCE**

	Rated Power	0.1W
	Max Applied Power	0.5W
Input	Resistance (Ω)	50, 100, 200, 500, 1K, or 2K
	TCR (ppm/°C)	±25
	Frequency Range	DC-1MHz
ıt	Rating output voltage	More than 60mV
Output	Output Resistance	340 Ohms ±30%
O	TC of Output Resistance	±300ppm/K
	Sensitivity	More than 0.6 V/W
tput	TC of Sensitivity	-0.001mV/mW/K (typical)
Input/Output	Response Time	2.5 ± 0.6 sec (63% response)
lnpu	AC-DC Difference, 10k-100kHz	< 10ppm (typical)
	AC-DC Difference, 100K-1MHz	< 10ppm (typical)
Env.	Operating Temperature	25°C ± 5°C
ᄪ	Storage Temperature	-20°C ~ +60°C

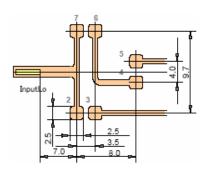
## **EQUIVALENT CIRCUIT & PIN ASSIGNMENT**



Top View

#### **RECOMMENDED FOOT PATTERN**

Note: Direct connection to center conductor of RF connecter from pin 1 is recommended.





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