

Revision History

Rev.	ECN No.	Description of Change	Date	Appvd By
1	23865	Origination	12-17-01	J. Sommer
2	24716	Add dimension height and change notes	05-14-02	D. Qualls
3	24730	Add -04BC	05-15-02	Josh M.
A	26136	RTP with changes, add -05BC	03-13-03	K. Lohrmeyer
B	34532	Del -01, -04, -05. Add -06, -07, -08BC	07-24-08	Fitzgerald
C	44594	Add -09BC	07-23-13	D. Soledad

Document Approval

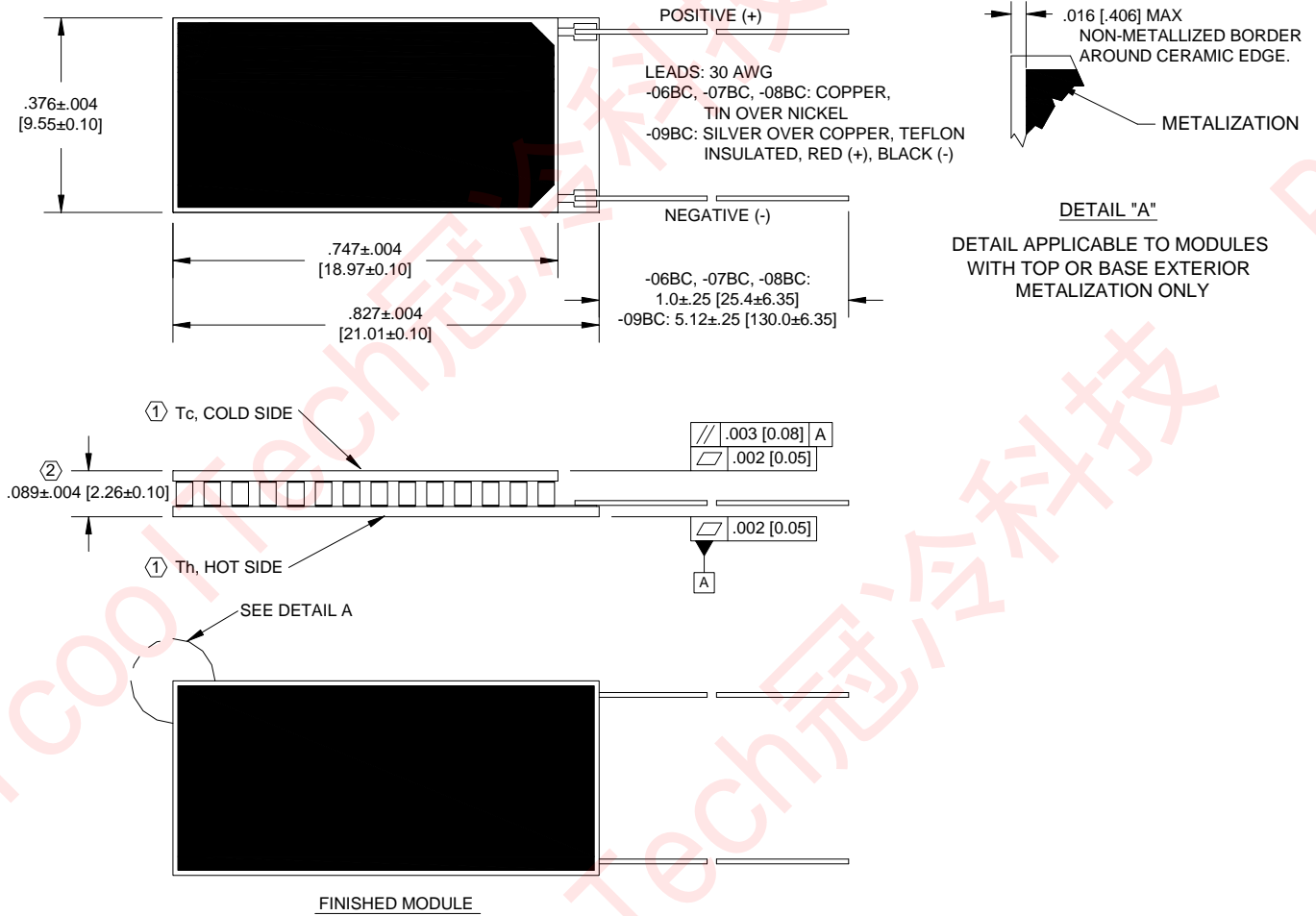
Next Assy

Used On

Originator:	J. Sommer	Date:	12-17-01
Dftg Check:	Serrano	Date:	12-17-01
Prgm Mngr:		Date:	
Engr Mngr:		Date:	
Mfrg Mngr:		Date:	
Quality:		Date:	

SP5349

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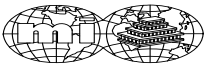
marlow industries, inc.® - Beryllium Oxide Handling Precautions

Beryllium oxide can be toxic only when dust, mist, or fumes containing particles small enough to enter the lungs are inhaled. For the user, precautions required are to avoid grinding, machining or pulverizing the material by mechanical, thermal, or chemical processing.

UNLESS OTHERWISE SPECIFIED

- DIMENSIONS ARE IN INCHES, AND WITHIN [] ARE IN MILLIMETERS.
- GENERAL TOLERANCES:
 DECIMALS .XX= ±.01, .XXX= ±.005, .XXXX= ±.0005,
 ANGLES ± 2° FINISH .125
- REMOVE ALL BURRS AND SHARP EDGES .020 MAX
- FILLET RADIUS .018 MAX
- INTERPRET DRAWING PER ANSI Y14.5M

SP5349-06BC	TEM Assembly, Met Exterior, Au Flash, Enhanced Elements
SP5349-07BC	TEM Assembly, Pretinned 138°C/183°C, Enhanced Elements
SP5349-08BC	TEM Assembly, Pretinned 183°C/183°C, Enhanced Elements
SP5349-09BC	TEM Assembly, Met Exterior, Au Flash, Enhanced Elements



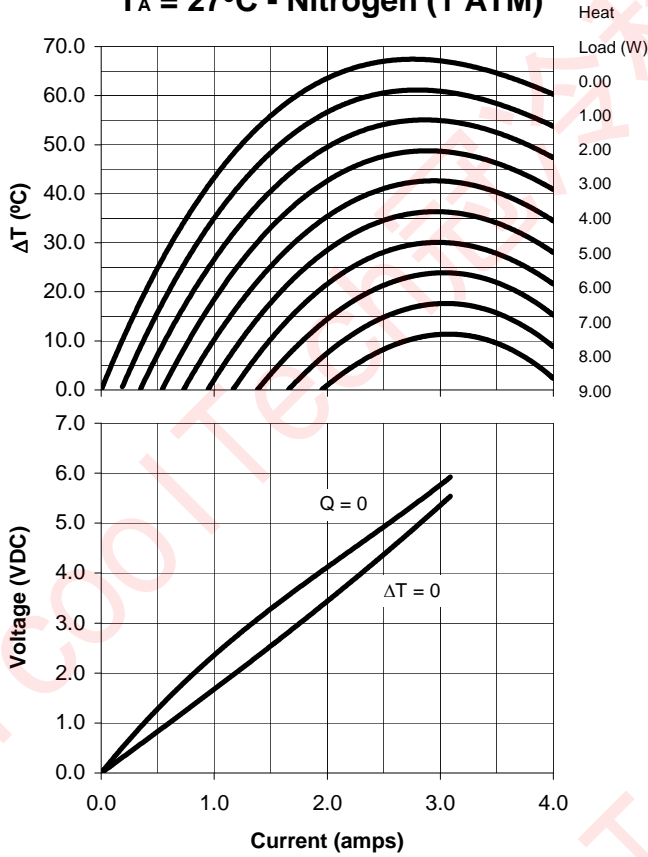
Notes:

1. Device exterior surfaces.
 - 06BC: Both sides - gold flash (4-10 microinches).
 - 07BC: Cold side pretinned with 138°C to a thickness of .002 to .004 inches,
Hot side pretinned with 183°C to a thickness of .002 to .004 inches.
 - 08BC: Cold side pretinned with 183°C to a thickness of .002 to .004 inches.
Hot side pretinned with 183°C to a thickness of .002 to .004 inches
 - 09BC: Both sides – gold flash (4-10 microinches).
2. Dimensions include metallization but exclude solder when applicable.
 3. Maximum operating temperature is 85°C.
 4. Maximum process temperature is 220°C.
 5. Edges may be scribed and snapped and may display irregularities within the stated tolerances.
 6. Ceramic material: Beryllium Oxide.

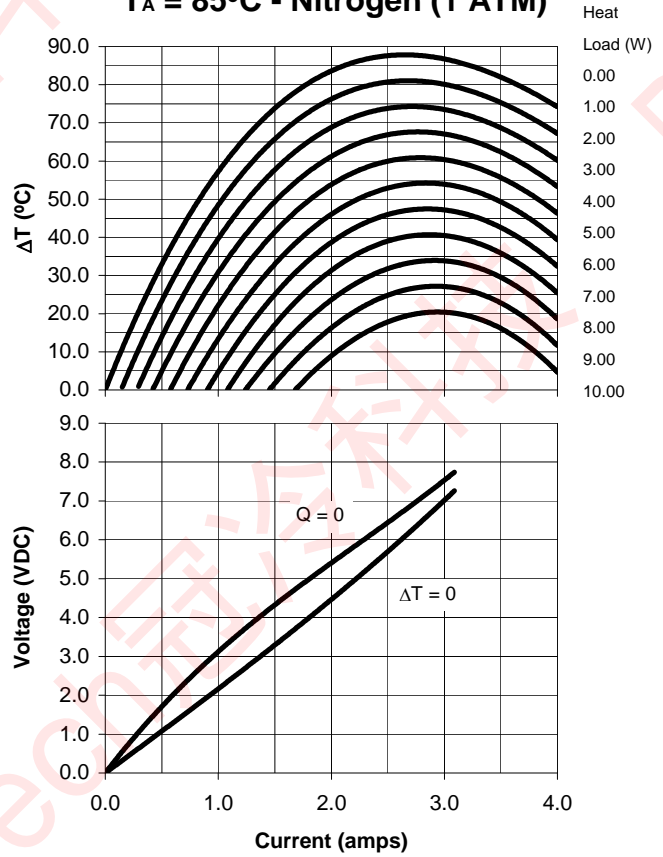
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T_A = 27°C - Nitrogen (1 ATM)



T_A = 85°C - Nitrogen (1 ATM)



TYPICAL PERFORMANCE	
Environment : Nitrogen (1 ATM)	
T _A (C) :	27
V _{MAX} (VDC) :	5.61
ΔT_{MAX} (C) :	68.0
I _{MAX} (amps) :	2.9
Q _{MAX} (W) :	10.7
ACR (Ω) :	1.64

TYPICAL PERFORMANCE	
Environment : Nitrogen (1 ATM)	
T _A (C) :	85
V _{MAX} (VDC) :	7.08
ΔT_{MAX} (C) :	88.0
I _{MAX} (amps) :	2.8
Q _{MAX} (W) :	12.9
ACR (Ω) :	-

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