

### MAXIMUM CHARACTERISTICS

#### APPLICATION:

BULKHEAD MOUNT/ALUMINUM CONSTRUCTION  
WEATHER PROOF WHEN INSTALLED

#### FREQUENCY RANGE:

dc TO 7.0GHz

#### MAX RF POWER:

90W/CW @ 30MHz  
9W/CW @ 3GHz

#### VSWR:

dc TO 3.0GHz @ <math>\leq 1.1</math> TO 1  
dc TO 4.0GHz @ <math>\leq 1.2</math> TO 1  
dc TO 7.0GHz @ <math>\leq 1.4</math> TO 1

#### INSERTION LOSS:

dc TO 4.0GHz @ <math>\leq 0.1</math>dB  
dc TO 7.0GHz @ <math>\leq 0.25</math>dB

#### RETURN LOSS:

dc TO 3.0GHz @ >30dB  
dc TO 4.0GHz @ >23dB  
dc TO 7.0GHz @ >15dB

#### DISCHARGE DEVICE CHARACTERISTICS

##### SURGE:

20kA ONE TIME @ IEC 61000-4-5 8/20 $\mu$ s WAVEFORM

##### IMPULSE SPARKOVER:

500 VOLTS @ 1000V/ $\mu$ s

##### dc SPARKOVER $\pm 20\%$ :

150 VOLTS

##### dc HOLDOVER:

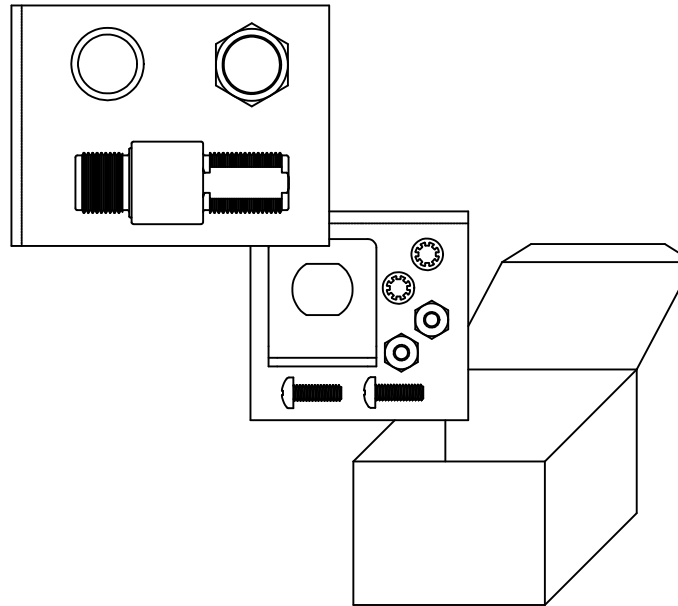
80 VOLTS @ <math>< 150</math>ms

##### MAX OPERATING CURRENT:

10A

##### TEMPERATURE:

-55°C TO +85°C STORAGE/OPERATING



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|-----------|------------|------|----------|
| DRAWN BY  | R. SWART   | DATE | 11/10/06 |
| MECH ENG  | R. DUNNING | DATE | 03/06/07 |
| ELEC ENG  | J. JONES   | DATE | 03/05/07 |
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| MKT DEPT  | C. PACHECO | DATE | 03/07/07 |

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PART NO / TITLE / DESCRIPTION

GT-NFF-AL  
CUSTOMER PRINT

#### TOLERANCES

UNLESS OTHERWISE STATED DIMENSIONS ARE IN INCHES  
SURFACE FINISH = 63 $\mu$ in HOLE DIAMETER  
ANGLES =  $\pm 1^\circ$

|                    |                        |
|--------------------|------------------------|
| .X = $\pm .05$     | .010-.039 +.004/-.001  |
| .XX = $\pm .03$    | .040-.129 +.005/-.001  |
| .XXX = $\pm .01$   | .130-.249 +.006/-.001  |
| .XXXX = $\pm .005$ | .250-.484 +.008/-.001  |
|                    | .485-.734 +.010/-.001  |
|                    | .735-.984 +.012/-.001  |
|                    | .985 AND UP $\pm .010$ |

DO NOT SCALE DRAWING

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|---|-------|--------|----------|-----------|
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