

REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
C	REFER TO ECN	11077		

#### MAXIMUM CHARACTERISTICS

##### APPLICATION:

BULKHEAD MOUNT/ALUMINUM CONSTRUCTION  
WEATHER PROOF WHEN INSTALLED  
50Ω IMPEDANCE

##### FREQUENCY RANGE:

dc TO 3.0GHz

##### MAX RF POWER:

40W/CW @ 30MHz

##### VSWR:

dc TO 1.0GHz @  $\leq 1.1:1$

dc TO 3.0GHz @  $\leq 1.2:1$

##### INSERTION LOSS:

dc TO 1.0GHz @  $\leq 0.1\text{dB}$

dc TO 3.0GHz @  $\leq 0.25\text{dB}$

##### RETURN LOSS:

dc TO 1.0GHz @  $\geq 26\text{dB}$

dc TO 3.0GHz @  $\geq 21\text{dB}$

##### TURN ON VOLTAGE:

$\pm 150\text{V} \pm 20\%$

##### USER VOLTAGE:

$\pm 60\text{Vdc}$

##### DC CURRENT:

6A

##### DC RESISTANCE:

$\leq 0.02\Omega$  (CENTER PIN + SHIELD RESISTANCE)

##### THROUGHPUT ENERGY:

$< 500\mu\text{J}$  @ 8/20μsec 4kA SURGE PULSE

##### MAX THROUGHPUT VOLTAGE:

$< 100\text{V}$  PEAK WITH 8/20μsec 4kA SURGE PULSE

##### MAX SURGE:

4kA IEC 61000-4-5 8/20μS WAVEFORM, DIRECT  
INJECTION BOTH POLARITIES.

##### ENVIRONMENTAL:

MEETS IEC 60529 IP67

MEETS BELLCORE #TA-NWT-000487

PROCEDURE 4.11, WIND DRIVEN (120 MPH)

RAIN INTRUSION TEST.

##### STORAGE/OPERATING TEMPERATURE:

$-50^\circ\text{C}$  TO  $+85^\circ\text{C}$

##### HUMIDITY:

$< 95\%$ , NON-CONDENSING, 100% EXTERNAL

#### DISCHARGE DEVICE CHARACTERISTICS

##### SURGE:

20kA ONE TIME @ IEC 61000-4-5 8/20μS WAVEFORM

##### IMPULSE SPARKOVER:

500 VOLTS @ 1000V/μs

dc SPARKOVER  $\pm 20\%$ :

150 VOLTS

##### dc HOLDOVER:

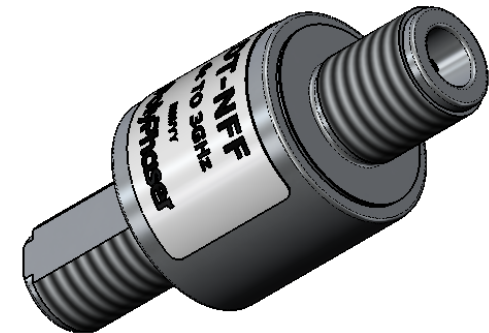
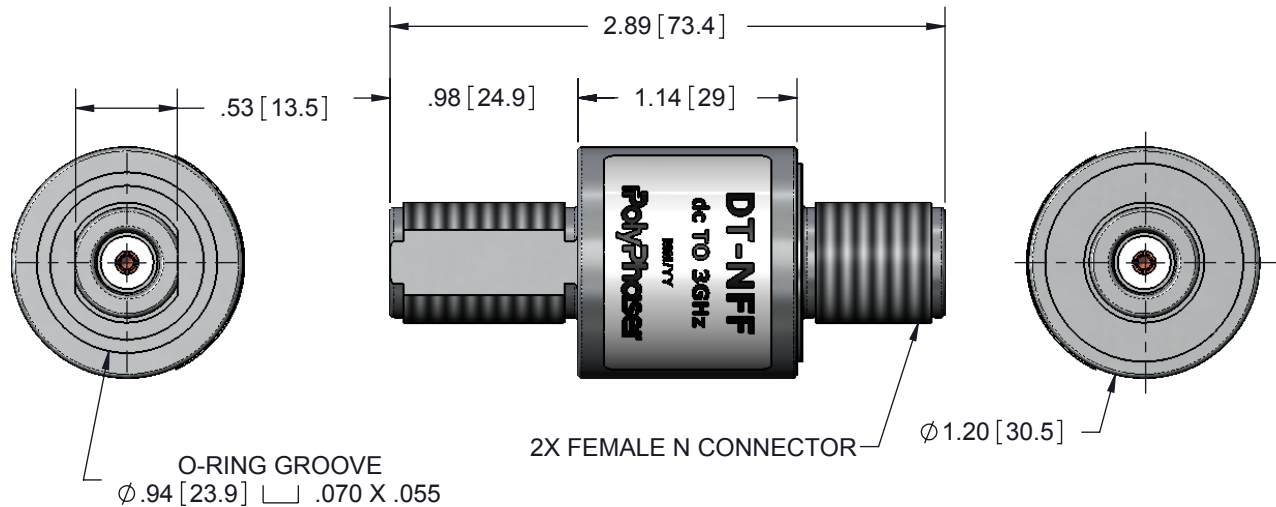
80 VOLTS @  $< 150\text{ms}$

##### MAX OPERATING CURRENT:

10A



##### TEMPERATURE:

$-55^\circ\text{C}$  TO  $+85^\circ\text{C}$  STORAGE/OPERATING



CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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	ENG APPD	RD	4/30/09					TITLE			
	PRODUCT MGR	CAP	4/29/09	dc-3GHz IN-LINE EMP SURGE N FEM CONNECTORS							
	MARKETING APPD	PB	4/30/09					CUSTOMER SPECIFICATION			
	PROJECT NO.			SIZE	CAGE	PROD CAT	PART NUMBER				
DOCUMENT NAME			DT-NFF-C	A	61114	DSP	DT-NFF	C			

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