

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 @ ≤1.1:1

dc TO 3.0GHz @ ≤1.2:1

**INSERTION LOSS:**

dc TO 1.0GHz @ ≤0.1dB

dc TO 3.0GHz @ ≤0.25dB

**RETURN LOSS:**

dc TO 1.0GHz @ ≥26dB

dc TO 3.0GHz @ ≥21dB

**TURN ON VOLTAGE:**

±150V ±20%

**USER VOLTAGE:**

±60Vdc

**DC CURRENT:**

6A

**DC RESISTANCE:**

≤0.02Ω (CENTER PIN + SHIELD RESISTANCE)

**THROUGHPUT ENERGY:**

<500μJ @ 8/20μsec 4kA SURGE PULSE

**MAX THROUGHPUT VOLTAGE:**

<100V 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°C TO +85°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 ±20%:**

150 VOLTS

**dc HOLDOVER:**

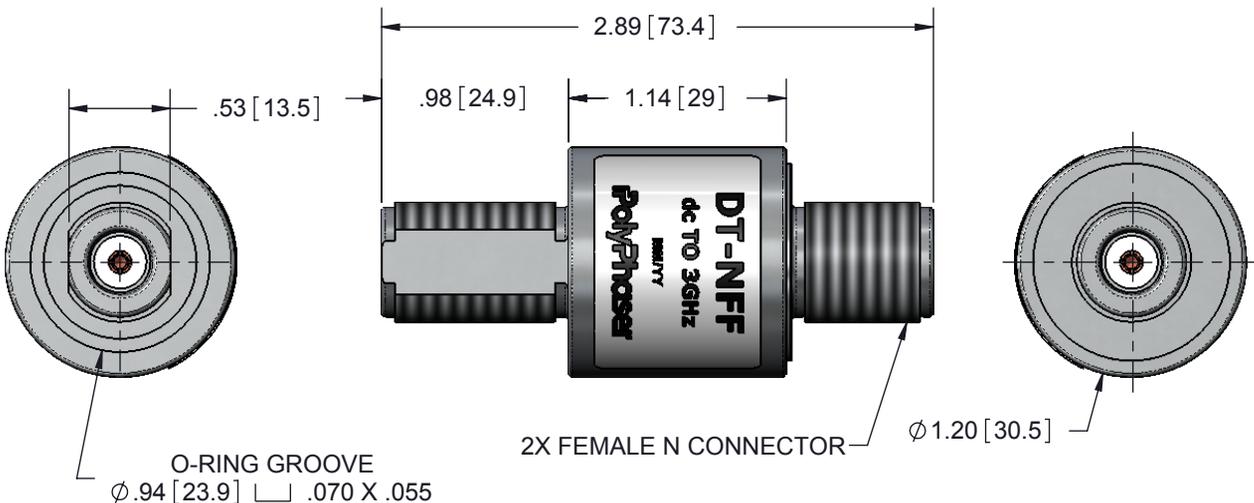
80 VOLTS @ <150ms

**MAX OPERATING CURRENT:**

10A

**TEMPERATURE:**

-55°C TO +85°C STORAGE/OPERATING



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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

<small>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</small> <b>TOLERANCES:</b> FRACTIONS=± 1/32 .XX=± .01 ANGLES=± 1° .XXX=± .005 <small>NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF POLYPHASER CORPORATION. ALL RIGHTS RESERVED.</small>	DRAWN	DATE			SHEET	1	OF	1		
	ENG APPD	JS			1/21/09	SCALE	1:1			
	PRODUCT MGR	RD			4/30/09	<b>dc-3GHz IN-LINE EMP SURGE N FEM CONNECTORS</b> <small>CUSTOMER SPECIFICATION</small>				
	MARKETING APPD	CAP			4/29/09					
PROJECT NO.	PB	4/30/09	DOCUMENT NAME	SIZE	CAGE	PROD CAT	PART NUMBER	REV		
THIRD-ANGLE PROJECTION			DT-NFF-C	A	61114	DSP	DT-NFF	C		

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