

# SurgeGuard™



## BIAS TEE w/ Lightning Protection

### Electrical Specifications:

RF Power	RF Power at 1 GHz/2GHz	Peak Power at 0.1% DC
SMA	480W/310W	2 kW
N/7-16	1200W/800W	5 kW/10kW
Return Loss	26.5 dB to 18.7 dB min	
VSWR	1.10 typ to 1.25 max	
Insertion Loss	.10 dB to 0.20 dB max	
Inter Mod.	>120 dBc (3rd order)	
Isolation	45 dB min. / 55 dB Typ.	

### Transient (8 $\mu$ x 20 $\mu$ s)

Max. Current	50 kA
Let Thru (RF)	4 Vpk / 60 nJ
Let Thru (dc)	160% for 1.5 $\mu$ s max.
Let Thru (Ref.)	8 V/10 $\mu$ J

Available Frequency	130 MHz to 900 MHz
	800 MHz to 3.0 GHz
	800 MHz to 3.0 GHz & 4-26 MHz

### DC

Dc Current	7.5 Amps
Dc Voltage	5, 12, 24, or 48 V

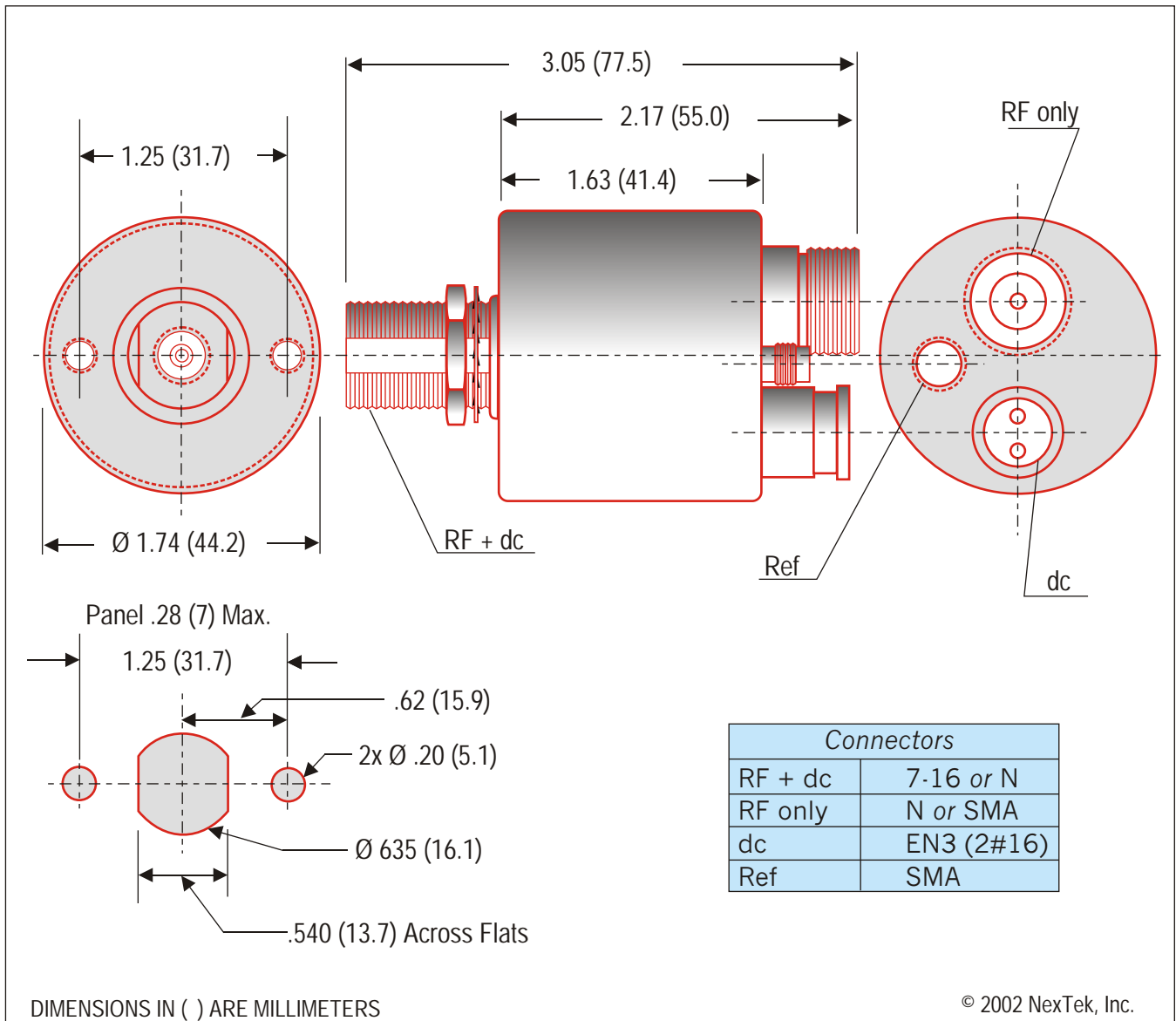


**NexTek, Inc.**  
439 Littleton Road  
Westford, MA 01886

COAXIAL LIGHTNING PROTECTION

[www.nexteklightning.com](http://www.nexteklightning.com)

tel. 978-486-0582 fax. 978-486-0583



NOTE: Not responsible for inadvertent errors - subject to change without notice. 04/02

MODEL #
BIAS TEE

***Environmental Specifications:***  
 Temperature range: ——— -40°C to +65°C  
 Dust and waterproof rating: IP67  
 Moisture resistance: ——— MIL-STD-202 Method 106E  
 Salt fog: ——— MIL-STD-202 Method 101D/B  
 Temperature shock: ——— MIL-STD-202 Method 107/A-1  
 Vibration: ——— MIL-STD-202 Method 204D/D  
 Shock: ——— MIL-STD-202 Method 213B/A

**COAXIAL LIGHTNING PROTECTION by:**



**NexTek, Inc.**  
 439 Littleton Road  
 Westford, MA 01886

[www.nexteklightning.com](http://www.nexteklightning.com)

tel. 978-486-0582 fax. 978-486-0583