DATA SHEET – RF SURGE SUPPRESSORS

Application

RF Coaxial surge suppressors are used to protect against EMP caused by lightning strikes in the direct vicinity of base stations.

Type of Surge Suppressors

- Gas Discharge tube
- Quarter wavelength shorting stub

Advantages

- Very high discharge currents are possible
- Very good transmission and intermodulation characteristics
- Complete discharge of the excess voltage
- Matching of the frequency range up to a range of over 10 GHz possible
- Maintenance free and waterproof
- Since only the desired frequency range is allowed to pass there is additional, useful filter effect (excluding odd multiples of the quarter wavelength frequency)

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2.1	**ELECTRICAL**	
	Frequency Range	1700 - 1900 MHz
	Impdance	50 ohms Nominal
		>27 dB(1.093) 870 - 970 MHz
	Return loss (VSWR)	>26 dB(1.104) 1700 - 1900 MHz
	Insertion loss	0.15 dB
	Shielding	-110 dB
	Surge handling	Multiple 20 KA
	CW Power	1 kW
	Throughtput energy	<1mJ
	Passive Intermodulation	-112 dBm (155 dBc)
	(IEC 62037 set up 1)	

2.2	**ENVIRONMENTAL**	
	Operating temperature range	-65 deg. C to +85 deg. C
	Storage temperature range	-65 deg. C to +85 deg. C
	Water Protection (IEC 60529)	IP 68
	Corrosion Protection	IEC 68-2-11 Ka

2.3	**MATERIAL AND FINISH**	
	Housing	Optagen plated brass
	Center conductor	Silver plated
	Insulators (ASTM D 1457)	PTFE
	Sealing	EPDM, Silicone