



ROJ-180A

Low PIM Lightning Protector 800-2500 MHz



Features

- High Reliability
- Low Insertion Loss
- Low Residual Voltage
- High RF Through Power
- Wide Bandwidth
- Low VSWR
- Low Intermodulation (PIM) <-155dBc min, -165dBc typical
- High Discharge Capacity

ROJ-180A is a low cost, commercial low IM3 lightning protector, specially designed for high power professional RF TX/RX antenna systems working in 800-2500MHz band, which will provide reliable protection to the systems. It's an ideal choice for modern digital / multi-channel antenna systems, such as GSM, CDMA, 3G and WLAN applications.

Specification

FREQUENCY RANGE	800-2500MHz
INPUT RF POWER	2500W max
DISCHARGE CAPACITY	30KA @8/20uS wave
RESIDUAL VOLTAGE	<15KV/uS
RF CONNECTORS	DIN716 M-F
IM3	< -155dBC @ 43dBm x 2
DC INPUT/OUTPUT	DC GROUNDED
INPUT VSWR	<1.25:1
INSERTION LOSS	< 0.15dB

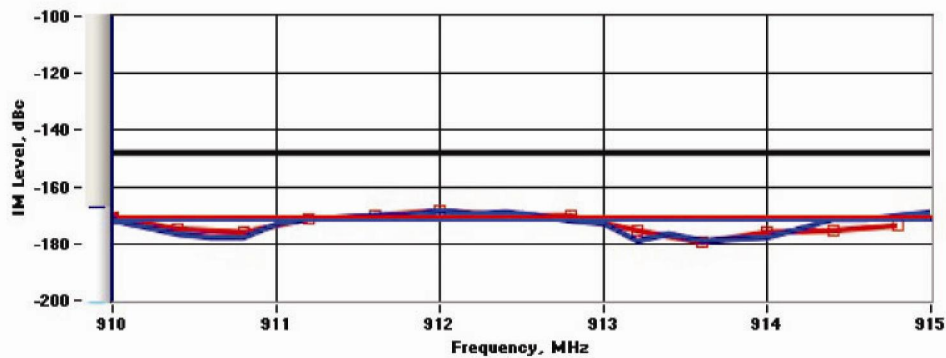


Test results:

ALC is on	Measured Power	Offset
F2 DOWN from 960.0 to 955.2 MHz. F1 Fixed at 935.0 MHz	42.9 dBm	0.0 dB
F1 UP from 935.0 to 937.4 MHz. F2 Fixed at 960.0 MHz	43.1 dBm	0.0 dB

Passive IM Response (IM3)

- F2 Down** — F1=935.0 MHz, F2=960.0 MHz; IM3=-172.2 dBc at 910.0 MHz
- F1 Up** — F1=935.0 MHz, F2=960.0 MHz; IM3=-170.9 dBc at 910.0 MHz



REVERSE IM

Mechanical Layout:

