

## Oil Dielectric Loads and Attenuators



- Compact size with high power handling.
- Loads maintain 1.1:1 or better VSWR to 1 GHz.
- Attenuators fitted with Quick Change (QC) connectors -- easily adaptable to common RF connector types.
- Wide -40°C to +45°C ambient temperature.
- 8251, 8862, 8892 and 8892-300 loads are available in special very-low VSWR "D" versions for UHF digital broadcast (see page 5).

## 150W to 10kW Oil-Dielectric Termaline® Loads 100W to 4kW Oil-Dielectric Tenuline® Attenuators

### General Specifications:

Ambient Temperature: -40°C to +45°C.  
Operating Position: Horizontal only.  
Finish: Gray powder coat.

### Attenuator Value & Accuracy: 30dB ± 0.5

dB. Attenuators include calibration data taken at 30, 100, 200, 300, 400 and 500 MHz, accurate to ± 0.2 dB.)

LOAD MODEL	POWER* RATING	FREQ. RANGE GHz @ VSWR	OIL	NOMINAL SIZE L" x H" x W"	WT. (LBS.)	CONNECTOR TYPE **	RECESS (IN***)		
8135	150 W	DC-1.0 @ 1.1 1.0-2.5 @ 1.2 2.5-4.0 @ 1.3	Mineral	9-1/2 x 6-11/32 x 3-15/16	6	QC - N Female	—		
8141	250 W	DC-1.0 @ 1.1 1.0-1.8 @ 1.2 1.8-2.5 @ 1.3	Silicone	9-9/16 x 8-1/2 x 5-15/16	10	QC - N Female	—		
8201	500 W	DC-1.0 @ 1.1 1.0-2.5 @ 1.25	Mineral	16-13/16 x 8-1/2 x 5-15/16	21	QC - N Female	—		
8401	600 W	DC-1.0 @ 1.1 1.0-2.8 @ 1.2 2.8-3.0 @ 1.3	Mineral	13-15/16 x 9-5/16 x 8-1/2	20	QC - N Female	—		
8251	1 kW	DC-1.0 @ 1.1 1.0-2.0 @ 1.2 2.0-2.4 @ 1.3	Silicone	17-29/32 x 8-1/2 x 5-15/16	25.5	QC - LC(F) & N(F)	—		
8833-300	1 kW	DC-1.0 @ 1.1 1.0-2.5 @ 1.25	Mineral	23-1/8 x 17-3/16 x 7-1/8	54.6	QC - LC(F) & N(F)	—		
8860	1.5 kW	DC-1.0 @ 1.1 1.0-2.0 @ 1.25	Silicone	17-1/8 x 13-1/8 x 7-1/2	30	QC - LC (F)	—		
8861	1.5 kW			17-7/8 x 13-1/8 x 7-1/2	31	1-5/8" Unfl.	0.438		
8862	1.5 kW			17-1/8 x 13-1/8 x 7-1/2	31	1-5/8" EIA Flg.	0.625		
8863	1.5 kW			18-5/8 x 13-1/8 x 7-1/2	32	3-1/8" Unfl.	0.0		
8864	1.5 kW			19-1/2 x 13-1/8 x 7-1/2	32	3-1/8" EIA Flg.	0.922		
8890-300	2.5 kW	DC-1.0 @ 1.1 1.0-2.0 @ 1.25 2.0-2.4 @ 1.3	Silicone	23-1/8 x 17-3/16 x 7	57	QC - LC(F)	—		
8892-300	2.5 kW			23-1/8 x 17-3/16 x 7	58	1-5/8" EIA Flg.	0.625		
8895-300	2.5 kW			22-3/16 x 17-3/16 x 7	58	1-5/8" Unfl.	0.438		
8891-300	2.5 kW			25-1/8 x 17-3/16 x 7	59	3-1/8" EIA Flg.	0.922		
8896-300	2.5 kW			24-5/32 x 17-3/16 x 7	59	3-1/8" Unfl.(51.5)	0.0		
8897-300	2.5 kW			25-1/8 x 17-3/16 x 7	59	3-1/8" Unfl.	0.0		
8898-300	2.5 kW			24-5/32 x 17-3/16 x 7	59	3-1/8" Unfl.	0.688		
8890-xxx+	5 kW			DC-1.0 @ 1.1 1.0-2.0 @ 1.25 2.0-2.4 @ 1.3	Silicone	23-1/8 x 22-11/16 x 7-3/8	70	QC - LC (F)	—
8892-xxx+	5 kW					23-1/8 x 22-11/16 x 7-3/8	72	1-5/8" EIA Flg.	0.625
8895-xxx+	5 kW	22-3/16 x 22-11/16 x 7-3/8	72			1-5/8" Unfl.	0.438		
8891-xxx+	5 kW	25-1/8 x 22-11/16 x 7-3/8	73			3-1/8" EIA Flg.	0.922		
8896-xxx+	5 kW	24-5/32 x 22-11/16 x 7-3/8	73			3-1/8" Unfl.(51.5)	0.0		
8897-xxx+	5 kW	24-5/32 x 22-11/16 x 7-3/8	73			3-1/8" Unfl.	0.0		
8898-xxx+	5 kW	24-5/32 x 22-11/16 x 7-3/8	73			3-1/8" Unfl.	0.688		
8921	5 kW	DC-1.0 @ 1.1	Silicone			30-27/32 x 25-13/16 x 9-1/2	119	QC - LC (F)	—
8922	5 kW					30-27/32 x 25-13/16 x 9-1/2	121	1-5/8" EIA Flg.	0.625
8926	5 kW			32-3/4 x 25-13/16 x 9-1/2	126.5	3-1/8" EIA Flg.	0.922		
8927	5 kW			31-7/8 x 25-13/16 x 9-1/2	126	3-1/8" Unfl.	0.438		
8931-xxx**	10 kW			DC-0.4 @ 1.15 0.4-1.0 @ 1.20	Silicone	30-7/32 x 33-5/16 x 9-1/2	135	QC - LC (F)	—
8932-xxx**	10 kW	30-7/32 x 33-5/16 x 9-1/2	137			1-5/8" EIA Flg.	0.625		
8936-xxx**	10 kW	32-1/8 x 33-5/16 x 9-1/2	142.5			3-1/8" EIA Flg.	0.922		
8937-xxx**	10 kW	31-1/4 x 33-5/16 x 9-1/2	142			3-1/8" Unfl.	0.438		

ATTEN. MODEL	POWER* RATING	dB Attenu.	FREQ. RANGE MHz @ VSWR	OIL	NOMINAL SIZE L" x H" x W"	WT. (LBS.)	CONNECTOR TYPE**
8323	100 W	30±0.5	DC-500 @ 1.1	Mineral	10-11/32 x 8-1/2 x 5-15/16	11	QC - N Female
8322	200 W	30±0.5	DC-500 @ 1.1	Mineral	17-1/2 x 8-1/2 x 5-15/16	19	QC - N Female
8325	500 W	30±0.5	DC-500 @ 1.1	Mineral	17-1/2 x 8-1/2 x 5-15/16	25	QC - N Female
8327-300	1 kW	30±0.5	DC-500 @ 1.1	Mineral	23-15/32 x 17-3/16 x 7-1/8	57	QC - LC (F) In QC - N (F) Out
8329-300	2 kW	30±0.5	DC-500 @ 1.1	Silicone	23-15/32 x 17-3/16 x 7-1/8	57	QC - LC (F) In QC - N (F) Out
8329-300 w/ BA-300-xxx***	4 kW	30±0.5	DC-500 @ 1.1	Silicone	23-15/32 x 22-1/16 x 7-1/8	70-1/2	QC - LC (F) In QC - N (F) Out

\* Continuous power. Model 8329-300 power rating is 4kW when blower is operated; 1kW when blower is not operated.

\*\* Listed QC Connectors supplied as standard. Other QC connectors available on request. Model 8327-300 attenuator includes spare unmounted N(F) QC.

\*\*\* Center conductor recess for rigid line connectors.

+ Packaged 8890 series 5kW loads include blower and dual overload thermoswitches. Specify -315 for 115 Vac operation, or -320 for 230 Vac operation.

\*\* Packaged 8930 series 10kW loads include blower and overload thermoswitch. Specify -115 for 115 Vac operation, or -230 for 230 Vac operation.

\*\*\* Packaged 8329-300 4kW attenuator includes blower and dual overload thermoswitches. Specify -315 for 115 Vac operation, or -320 for 230 Vac operation.