

Coaxial Dynamics

Worldwide Quality, Reliability and Value Est. 1969

Portable Wattmeters/Meters

Rackmount Wattmeters/Meters

RF Line Sections

DC Cable Assemblies

Quick Match Connectors

Plug-In Elements

Instrumentation Short Form Catalog

Coaxial Dynamics

A CDI INDUSTRIES, INC. COMPANY

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**Coaxial
Dynamics**

ACDI INDUSTRIES, INC. COMPANY
**Specialists in RF Test
Equipment & Components**

Portable RF Wattmeters/Meters

Basic Wattmeter with Replaceable Elements

Cost-Effective In-Line RF Power Meter
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Quick Match Connectors
 Two Year Limited Warranty



Power Range	100 mW to 10 kW (Defined by Elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	0.45 MHz to 2300 MHz (Defined by Elements)
VSWR	1.05:1 max. (with type N connectors)
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	3.6 lbs. (1.6 kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	7/8 Inch Line Size (page 17)
Model Number(s)	81000-A = Standard Unit 81001-A = Additional DC Input for Remote Line Section

Multi-Mode Wattmeter with Replaceable Elements

Peak and Average Reading
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Quick Match Connectors
 Two Year Limited Warranty



Power Range	100 mW to 10 kW (Defined by Elements)
Modulation Type	FM, CW (Average Reading) AM, SSB (Peak Reading - 2.5, 5 and 10 kW) Square Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 100 to 1000 MHz Minimum Pulse Width = 2 μsec 26 to 99 MHz Minimum Pulse Width = 15 μsec 2 to 25 MHz Gaussian Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 25 to 1000 MHz Minimum Pulse Width = 15 μsec 2 to 24 MHz
Frequency Range	0.45 MHz to 2300 MHz (Defined by Elements)
VSWR	1.05:1 max. (with type N connectors)
Accuracy	±5% of full scale Average Reading ±7% of full scale Peak or Pulse Reading
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	3.6 lbs. (1.6 kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	7/8 Inch Line Size (page 17)
Model Number(s)	83000-A



Portable RF Wattmeters/Meters

LCD Readout Wattmeter with Replaceable Elements

- Cost-Effective In-Line RF Power Meter
- Large LCD Readout in Watts or dBm
- Internal Rechargeable Batteries
- Quick Match Connectors
- Two Year Limited Warranty

Power Range	100 mW to 10 kW (Defined by Elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	0.45 MHz to 2300 MHz (Defined by Elements)
VSWR	1.05:1 max. (with type N connectors)
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	3.6 lbs. (1.6 kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	7/8 Inch Line Size
Model Number(s)	81030



Multi-Range Wattmeter to 500 Watts

- No Additional Elements Required
- Shock Mounted "Taut Band" Meter
- 5.4" Diagonal Mirrored Scale
- Quick Match Connectors
- Two Year Limited Warranty

Power Range	5, 15, 50, 150 and 500 Watts Full Scale
Modulation Type	FM, CW (Average Reading)
Frequency Range	25 MHz to 1000 MHz
VSWR	1.08:1 max. 25 to 512 MHz 1.12:1 max. 512 to 1000 MHz
Accuracy	±6% of full scale 100 to 512 MHz ±7% of full scale 25 to 100 MHz (with Correction Chart) ±7% of full scale 512 to 1000 MHz
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	3.8 lbs. (1.7 kg)
Case Finish	Textured Blue Polyurethane Enamel
Model Number(s)	81050

Portable RF Wattmeters/Meters

Multi-Range Wattmeter to 1500 Watts

No Additional Elements Required
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Quick Match Connectors
 Two Year Limited Warranty



Power Range	15, 50, 150, 500 and 1500 Watts full scale
Modulation Type	FM, CW (Average Reading)
Frequency Range	25 MHz to 1000 MHz
VSWR	1.08:1 max. 25 to 512 MHz 1.12:1 max. 512 to 1000 MHz
Accuracy	±6% of full scale 100 to 512 MHz ±7% of full scale 25 to 100 MHz (with Correction Chart) ±7% of full scale 512 to 1000 MHz
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	3.8 lbs. (1.7 kg)
Case Finish	Textured Blue Polyurethane Enamel
Model Number(s)	81060

Multi-Range, Multi-Mode Wattmeter to 1500 Watts

No Additional Elements Required
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Quick Match Connectors
 Two Year Limited Warranty



Power Range	15, 50, 150, 500 and 1500 Watts full scale
Modulation Type	FM, CW (Average Reading) AM, SSB (Peak Reading - 2.5, 5 and 10 kW) Square Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 100 to 1000 MHz Minimum Pulse Width = 2 μsec 26 to 99 MHz Minimum Pulse Width = 15 μsec 2 to 25 MHz Gaussian Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 25 to 1000 MHz Minimum Pulse Width = 15 μsec 2 to 24 MHz
Frequency Range	25 MHz to 1000 MHz
VSWR	1.08:1 max. 25 to 512 MHz 1.12:1 max. 512 to 1000 MHz
Accuracy (average and peak)	±6% (ave)/±8% (pk) of full scale 100 to 512 MHz ±7% (ave)/±9% (pk) of full scale 25 to 100 MHz (w/Correction Chart) ±7% (ave)/ ±9% (pk) of full scale 512 to 1000 MHz
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm)
Weight	4.0 lbs. (1.8 kg)
Case Finish	Textured Blue Polyurethane Enamel
Model Number(s)	83060

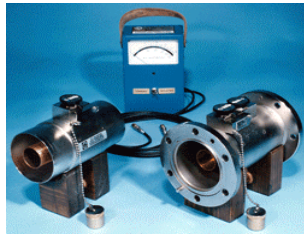
Portable RF Wattmeters/Meters



High Power RF Wattmeter with 1 5/8 Rigid Line Section

- Locate Line Section up to 200 Feet from Meter
- Shock Mounted "Taut Band" Meter
- 5.4" Diagonal Mirrored Scale
- Use one Meter for Multiple Installations
- Two Year Limited Warranty

Power Range	250W to 30kW (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	2 MHz to 1000 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	1 5/8, type specified by model
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm) Display Meter
Weight	2.5 lbs. (1.1 kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	1 5/8 Line Size Elements (non-Digital)
Model Number(s) 5/10/25 Scales**	Single Socket = 81100-A EIA Flanged or 81101-A = Unflanged Flush Dual Socket = 81102-A = EIA Flanged or 81103-A = Unflanged Flush Unflanged Recessed = 81111-A Single or 81113-A Dual Socket
Model Number(s) 15/30/60 Scales**	Single Socket = 81106-A EIA Flanged or 81107-A = Unflanged Flush Dual Socket = 81108-A = EIA Flanged or 81109-A = Unflanged Flush Unflanged Recessed = 81115-A Single or 81117-A Dual Socket



High Power RF Wattmeter with 3 1/8 Rigid Line Section

- Locate Line Section up to 200 Feet from Meter
- Shock Mounted "Taut Band" Meter
- 5.4" Diagonal Mirrored Scale
- Use one Meter for Multiple Installations
- Two Year Limited Warranty

Power Range	1kW to 60kW (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	2 MHz to 1000 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	3 1/8, type specified by model
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm) Display Meter
Weight	2.5 lbs. (1.1 kg) Display Meter
Case Finish	Textured Blue Polyurethane Enamel
Elements	3 1/8 Line Size Elements (non-Digital)
Model Number(s) 5/10/25 Scales**	Single Socket = 81300-A EIA Flanged or 81301-A = Unflanged Flush Dual Socket = 81302-A = EIA Flanged or 81303-A = Unflanged Flush Unflanged Recessed = 81311-A Single or 81313-A Dual Socket
Model Number(s) 15/30/60 Scales**	Single Socket = 81306-A EIA Flanged or 81307-A = Unflanged Flush Dual Socket = 81308-A = EIA Flanged or 81309-A = Unflanged Flush Unflanged Recessed = 81315-A Single or 81317-A Dual Socket

**All Dual Socket Models have Fwd/Ref Switch on Meter

Portable RF Wattmeters/Meters

High Power RF Wattmeter with 4 1/16 Rigid Line Section

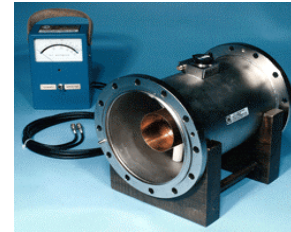
Locate Line Section up to 200 Feet from Meter
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Use one Meter for Multiple Installations
 Two Year Limited Warranty



Power Range	2.5kW to 60kW (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	2 MHz to 1000 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	4 1/16, type specified by model
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm) Display Meter
Weight	2.5 lbs. (1.1 kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	4 1/16 Line Size Elements (non-Digital)
Model Number(s) 5/10/25 Scales**	Single Socket = 81400-A EIA Flanged or 81401-A = Unflanged Flush Dual Socket = 81402-A = EIA Flanged or 81403-A = Unflanged Flush Unflanged Recessed = 81411-A Single or 81413-A Dual Socket
Model Number(s) 15/30/60 Scales**	Single Socket = 81406-A EIA Flanged or 81407-A = Unflanged Flush Dual Socket = 81408-A = EIA Flanged or 81409-A = Unflanged Flush Unflanged Recessed = 81415-A Single or 81417-A Dual Socket

High Power RF Wattmeter with 6 1/8 Rigid Line Section

Locate Line Section up to 200 Feet from Meter
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Use one Meter for Multiple Installations
 Two Year Limited Warranty



Power Range	2.5kW to 100kW (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	2 MHz to 1000 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	6 1/8, type specified by model
Dimensions (H x W x D)	7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm) Display Meter
Weight	2.5 lbs. (1.1 kg) Display Meter
Case Finish	Textured Blue Polyurethane Enamel
Elements	4 1/16 Line Size Elements (non-Digital)
Model Number(s) 5/10/25 Scales**	Single Socket = 81600-A EIA Flanged or 81601-A = Unflanged Flush Dual Socket = 81602-A = EIA Flanged or 81603-A = Unflanged Flush Unflanged Recessed = 81611-A Single or 81613-A Dual Socket
Model Number(s) 15/30/60 Scales**	Single Socket = 81606-A EIA Flanged or 81607-A = Unflanged Flush Dual Socket = 81608-A = EIA Flanged or 81609-A = Unflanged Flush Unflanged Recessed = 81615-A Single or 81617-A Dual Socket

**All Dual Socket Models have Fwd/Ref Switch on Meter



Portable RF Wattmeters/Meters

High Power Digital RF Wattmeters

HDTV, DTV, CDMA, DAB and DMB Compatible

Shock Mounted "Taut Band" Meter

5.4" Diagonal Mirrored Scale

Use one Meter for Multiple Installations

Two Year Limited Warranty

Power Range	100W to 100kW (defined by elements)
Modulation Type	Digital: HDTV, DTV, CDMA, DAB, IBOC and DMB Compatible
Frequency Range	54 MHz to 806 MHz
Accuracy	±5% of full scale Average Reading
Impedance	50Ω
RF Connectors	Defined by Line Section (ordered separately)
Dimensions (H x W x D)	7.3 in x 5 in x 4 in (18.5 cm x 12.7 cm x 10.2 cm) Meter Only
Weight	2.5 lbs. (1.13 kg) Meter Only
Case Finish	Textured Blue Polyurethane Enamel
Elements	92000 Series Digital Elements (ordered Separately)
Model Number(s) 5/10/25 Scales	98952-A = Single Socket or 98954-A = Dual Socket
Model Number(s) 15/30/60 Scales	98958-A = Single Socket or 98959-A = Dual Socket



Multi-Mode, Micro-Controlled RF Wattmeter

Stores Min/Max, Fwd/Rev Power Over Time

Refreshes Measurement up to 4 Times a Second

Peak, Average, Absolute or Relative Power

Rechargeable Batteries and Charger Included

Two Year Limited Warranty

Power Range	100mW to 10kW (defined by elements)
Modulation Type	FM, CW (Average Reading) AM, SSB (Peak Reading - 2.5, 5 and 10 kW) Square Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 100 to 1000 MHz Minimum Pulse Width = 2 μsec 26 to 99 MHz Minimum Pulse Width = 15 μsec 2 to 25 MHz Gaussian Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μsec 25 to 1000 MHz Minimum Pulse Width = 15 μsec 2 to 24 MHz
Frequency Range	2 MHz to 1000 MHz
VSWR	1.05:1 max. (with type N connectors)
Accuracy	±5% of full scale Average Reading ±7% of full scale Peak or Pulse Reading
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	3.25 in. (8.3 cm) x 7.63 in. (19.4 cm) x 8.75 in. (22.2 cm)
Weight	4.5 lbs. (2.04 kg)
Case Finish	Textured Blue and Tan Polyurethane Enamel
Elements	7/8 Line Size Elements Competitor's Table 1, 2, 3, 3A, 4, 5, 6 and 14
Model Number(s)	83550

Rack-Mount Wattmeters/Meters

Complete RF Wattmeter System

Built-in 7/8 Line Section
Shock Mounted "Taut Band" Meter
5.4" Diagonal Mirrored Scale
Many Standard Configurations
Two Year Limited Warranty



Power Range	100 mW to 10 kW full scale (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	0.45 to 2300 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Type N Female standard (or any Quick Match Type)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 3U ht (5.25 in/13.335 cm)
Weight	7.0 lbs (3.2kg)
Case Finish	Textured Blue Polyurethane Enamel
Elements	7/8 Line Size Elements (non-Digital)
Model Number(s) 5/10/25 Scales	81002-A = Single meter, FWD/RFL switch and 7/8" Dual Socket Line 81003-A = Single meter and 7/8" Single Socket Line Section 81006-A = Dual meters and 7/8" Dual Socket Line Section 81017-A = Single meter and 7/8" Single Socket Line Section with added feature of an A/B switchable DC input providing option of single meter measurement of several power sources

Average Reading Panel Meters

Locate Line Section up to 200 Feet from Meter
Shock Mounted "Taut Band" Meter
5.4" Diagonal Mirrored Scale
Many Standard Configurations
Two Year Limited Warranty



Power Range	100mW to 100kW (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	0.45 to 2300 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Per Line Section (ordered separately)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 3U ht (5.25 in/13.335 cm)
Weight	7.0 lbs (3.2kg)
Case Finish	Textured Blue Polyurethane Enamel
Model Number(s) 5/10/25 Scales	81004-A = Single meter, FWD/RFL switch for Dual Socket Line 81005-A = Dual meters for Dual Socket Line Sections 81007-B = Dual meters and 2P5T front panel switch for use with up to five Dual Socket Line Sections 81008-A = Single meter for use with Single Socket Line Sections 81018-A = Dual meters and dual FWD/RFL switches for use with two Dual Socket Line Sections
Model Number(s) 15/30/60 Scales	81007-C = Dual meters and 2P5T front panel switch for use with up to five Dual Socket Line Sections. 81014-A = Single meter and FWD/RFL switch for use with Dual Socket Line Sections 81015-A = Dual meters for use with Dual Socket Line Sections 81016-A = Single meter for use with Single Socket Line Sections

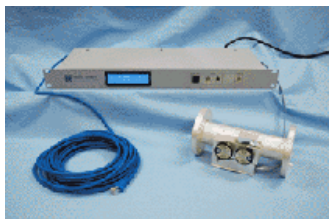


Rack-Mount Wattmeters/Meters

Multi-Mode Panel Meters

- Peak and Average Reading
- Shock Mounted "Taut Band" Meter
- 5.4" Diagonal Mirrored Scale
- Many Standard Configurations
- Two Year Limited Warranty

Power Range	100mW to 100kW (defined by elements)
Modulation Type	FM, CW (Average Reading) AM, SSB (Peak Reading) Square Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μ sec 100 to 1000 MHz Minimum Pulse Width = 2 μ sec 26 to 99 MHz Minimum Pulse Width = 15 μ sec 2 to 25 MHz Gaussian Pulse (Minimum 30 pps Rep Rate) Minimum Pulse Width = 0.5 μ sec 25 to 1000 MHz Minimum Pulse Width = 15 μ sec 2 to 24 MHz
Frequency Range	0.45 to 2300 MHz
Accuracy	\pm 5% of full scale
Impedance	50 Ω
RF Connectors	Per Line Section (ordered separately)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 3U ht (5.25 in/13.335 cm)
Weight	7.0 lbs (3.2kg)
Model Number(s) 5/10/25 Scales	83010 = Single meter for use with Single Socket Line Sections 83011 = Single meter and FWD/RFL switch for use with Dual Socket
Model Number(s) 15/30/60 Scales	83015 = single meter for use with Single Socket Line Sections 83016 = Single meter and FWD/RFL switch for use with Dual Socket



Advanced Wattchman Monitor/Alarm

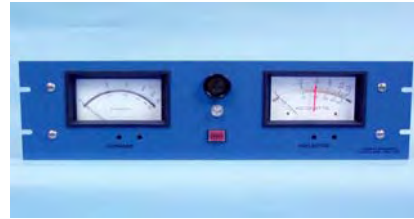
- Dual-port Forward and Reflected Analog/Digital Power Monitor
- Network Interface for Setup, Monitoring, Alerts and Datalogging
- Audible, Visual and email Alerts with Failsafe Operation
- Bright Fluorescent Display of Forward and Reflected Power
- Two Year Limited Warranty

Power Range (Average Reading)	5W to 100 kW (Std 5/10/25 Scale Analog and/or Digital Elements)
Modulation Type	Analog: FM, CW (diode detector) Digital: HDTV, DTV, CDMA, DAB, IBOC, DMB (square law detector)
Frequency Range	2 MHz to 2300 MHz
Accuracy	\pm 5% of Full Scale
Impedance	50 Ω
RF Connectors	Per Advanced Wattchman Line Sections (ordered separately - below)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 1U ht (1.75 in/44.45 mm ht)
Weight	6.0 lbs. (2.72 kg)
Case Finish	Gray Polyurethane Enamel
Model Number(s)	81094 Controller (accepts one or two of these Line Sections/Ports): 7/8 Dual Socket Line Sections/Ports: 88535D=EIA Flanged, 88539D=Unfl Flush, 88539-2D=Unfl Recessed 1-5/8 Dual Socket Line Sections/Ports: 88514D=EIA Flanged, 88515D=Unfl Flush, 88515-2D=Unfl Recessed 3-1/8 Dual Socket Line Sections/Ports: 88516D=EIA Flanged, 88517D=Unfl Flush, 88517-2D=Unfl Recessed 4-1/16 Dual Socket Line Sections/Ports: 88515D=EIA Flanged, 88519D=Unfl Flush, 88519-2D=Unfl Recessed 6-1/8 Dual Socket Line Sections/Ports: 88520D=EIA Flanged, 88521D=Unfl Flush, 88521-2D=Unfl Recessed

Rack-Mount Wattmeters/Meters

Wattchman Series Monitor/Alarm Analog Panel Meter

Audible and Visual Alarms
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Transmitter Interlock Relays
 Two Year Limited Warranty



Power Range	5W to 100 kW full scale (defined by elements)
Modulation Type	FM, CW (Average Reading)
Frequency Range	0.45 to 2300 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Per Customer Specified Dual Line Section (ordered separately)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 3U ht (5.25 in/13.335 cm)
Weight	9.0 lbs. (4.08 kg)
Case Finish	Textured Blue Polyurethane Enamel
Response Time	Less than 15 milliseconds (including control relay function)
Model Number(s) 5/10/25 Scales	81070 = Dual Meter, High Reflected Power Monitor/Alarm 81071 = Dual Meter, Low Forward, High Reflected Monitor/Alarm 81073 = Single Meter, Low Forward Power Monitor/Alarm 81074 = Single Meter, High Reflected Power Monitor/Alarm 81090 = Same as 81071 but includes Amplified DC Output
Model Number(s) 15/30/60 Scales	81081 = Dual Meter, High Reflected Power Monitor/Alarm 81082 = Dual Meter, Low Forward, High Reflected Monitor/Alarm 81091 = Same as 81090 but with 15/30/60 Scales

Wattchman Series Monitor/Alarm for Digital Broadcast

HDTV, DTV, CDMA, DAB and DMB Compatible
 Shock Mounted "Taut Band" Meter
 5.4" Diagonal Mirrored Scale
 Audible and Visual Alarms
 Two Year Limited Warranty



Power Range	100W to 100kW (defined by elements)
Modulation Type	Digital: HDTV, DTV, CDMA, DAB, IBOC and DMB Compatible
Frequency Range	54 MHz to 806 MHz
Accuracy	±5% of full scale
Impedance	50Ω
RF Connectors	Per Line Section (ordered separately)
Dimensions (H x W x D)	EIA Rack Mount 19 in (48.26 cm) x 3U ht (5.25 in/13.335 cm)
Weight	6.5 lbs. (2.95 kg)
Case Finish	Textured Blue Polyurethane Enamel
Model Number(s) 5/10/25 Scales	91090 = Dual meter, Fwd & Ref presets, amplified DC Outputs
Model Number(s) 15/30/60 Scales	91091 = Dual meter, Fwd & Ref presets, amplified DC Outputs



DC Cable Assemblies

Standard Meter Cables

Wide Variety of Standard Models
 Up to 200 ft Length
 High Quality Rugged Construction
 Designed Specifically for Our Products
 Two Year Limited Warranty

Model	Description	Model	Description
88900	33" with DC connector	88901	10-ft with DC connector
88902	25-ft with DC connector	88903	50-ft with DC connector
88904	100-ft with DC connector	88905	200-ft with DC connector
88909	2-ft RG/8 with N Male connectors	88910	2-ft RG/8 with N Male/UHF Male connectors
88911	DC cable connector	*88912	33" with DC connector, both ends
*88913	10-ft with DC connector, both ends	*88914	25-ft with DC connector, both ends
*88915	50-ft with DC connector, both ends	*88916	100-ft with DC connector, both ends
*88917	200-ft with DC connector, both ends	88923	35-ft with DC connector
*88924	35-ft with DC connector, both ends	88927	25-ft for Digital Meters and Elements
88928	50-ft for Digital Meters and Elements	88929	100-ft for Digital Meters and Elements
88930	200-ft for Digital Meters and Elements	88931	10-ft for Digital Meters and Elements

*These Cable Assemblies are for use with Wattachman Station Monitor/Alarm Systems

Quick Match Connectors

QM Series Quick Match Connectors

Easily Changed in the Field
 For RF Line Sections and Wattmeters
 High Quality Plating and Finish
 Interchangeable with Competitive Models
 Two Year Limited Warranty



Model	Description	Model	Description
88000	N Female	88001	N Male
88002	BNC Female	88003	BNC Male
88004	UHF Female (SO-239)	88005	UHF Male (PL-259)
88006	LC Female	88007	LC Male
88008	C Female	88009	C Male
88010	7/8" EIA Swivel Flange	88011	TNC Female
88012	TNC Male	88013	HN Female
88014	HN Male	88020	SMA Female
88021	SMA Male	88022	1-5/8" EIA Swivel Flange
88023	1-5/8" EIA Fixed Flange	88024	QM Connector Coupling Block
88026	Miniature UHF Female	88027	SC Female
88028	SC Male	88029	European 7/16 IEC Female
88030	Open Terminal (#10-32 nut)	88031	European 7/16 IEC Male
Adapter To Accept Quick Match Connectors			
88016	1-5/8" Unflanged	88017	3-1/8" Unflanged
88018	1-5/8" EIA Swivel Flanged	88019	3-1/8" EIA Swivel Flanged

RF Line Sections

7/8 Inch Line Size

Silver Plated or Yellow Iridite For High Conductivity
 Low Insertion VSWR
 Uses Standard Gold Plated Plug-In Elements
 Many Standard Configurations **
 Two Year Limited Warranty



Power Range	100 mW to 10 kW (Defined by Elements)
Frequency Range	0.45 MHz to 2300 MHz (Defined by Elements)
VSWR	1.05:1 max. (with type N connectors)
Impedance	50Ω
RF Connectors	Quick Match Connectors (ordered separately unless specified)
Plating	Silver
Model Number(s) Single Socket	88500 = Replacement Line Section for model 81000-A, 81001-A and 83000-A Wattmeters 88500-1 = Standard Single Socket 88500-3 = MIC (Navy Style) DC Connector and Dust Cover 88500-4 = MIC (Navy Style) DC Connector 88525 = Includes Mounting Bracket 88527 = Type N Male and Female QM Connectors, MIC (Navy Style) DC Connector, Dust Cover and Mounting Bracket 88530 = Type N Female QM Connectors, DC Cover Plate and Mounting Brackets 88531 = EIA Fixed Flanged for use with X Tractor Element only *** 88534 = EIA Swivel Flanged 88536-1 = For use with X Tractor Elements only *** 88536-5 = Type N Female QM Connectors, Mounting Bracket, for use with X Tractor Element only ***
Model Number(s) Dual Socket	88500-2 = Standard Dual Socket 88529-1 = Type N Male and Female QM Connectors, MIC (Navy Style) DC Connectors, and Mounting Bracket 88529-2 = Type HN Male and Female QM Connectors, MIC (Navy Style) DC Connectors, and Mounting Bracket 88529-3 = Type N Female QM Connectors, BNC Female DC Connectors, and Mounting Bracket 88529-5 = MIC (Navy Style) DC Connector 88529-6 = Type N Male and Female QM Connectors and Mounting Bracket 88529-7 = Type N Female Connectors and Mounting Bracket 88535 = EIA Swivel Flanged 88536-2 = For use with X Tractor Elements only *** 88536-3 = Type N Female QM Connectors, Mounting Bracket, for use with X Tractor Elements only ***
Model Number(s) Triple Socket	88536-4 = For use with X Tractor Elements only ***

** Line Sections supplied with standard DC Connectors unless noted. MIC (Navy Style) Connector is not standard and will not interface with 88900 Series DC Cable Assemblies.

*** No DC Output Connectors

RF Line Sections

1 5/8 Inch Line Size



Silver Plated For High Conductivity
Low Insertion VSWR
Uses Standard Gold Plated Plug-In Elements
Many Standard Configurations
Two Year Limited Warranty

Power Range	250W to 30 kW (Defined by Elements)
Frequency Range	2 MHz to 1000 MHz (Defined by Elements)
VSWR	1.05:1 max
Impedance	50Ω
RF Connectors	1 5/8, type specified by model
Plating	Silver
Model Number(s) Single Socket	88501 = EIA Flanged 88502 = Unflanged Flush 88502-2 = Unflanged Recessed
Model Number(s) Dual Socket	88514 = EIA Flanged 88515 = Unflanged Flush 88515-2 = Unflanged Recessed
Model Number(s) Triple Socket	88522 = Unflanged Flush 88522-2 = Unflanged Recessed 88538 = EIA Flanged
Model Number(s) Quad Socket	88511 = EIA Swivel Flanged

3 1/8 Inch Line Size



Silver Plated For High Conductivity
Low Insertion VSWR
Uses Standard Gold Plated Plug-In Elements
Many Standard Configurations
Two Year Limited Warranty

Power Range	1kW to 60 kW (Defined by Elements)
Frequency Range	2 MHz to 1000 MHz (Defined by Elements)
VSWR	1.05:1 max
Impedance	50Ω
RF Connectors	3 1/8, type specified by model
Plating	Silver
Model Number(s) Single Socket	88503 = EIA Flanged 88504 = Unflanged Flush 88504-2 = Unflanged Recessed
Model Number(s) Dual Socket	88516 = EIA Flanged 88517 = Unflanged Flush 88517-2 = Unflanged Recessed
Model Number(s) Triple Socket	88523 = Unflanged Flush 88523-2 = Unflanged Recessed

RF Line Sections

4 1/16 Inch Line Size

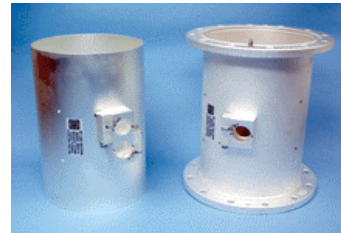
Silver Plated For High Conductivity
 Low Insertion VSWR
 Uses Standard Gold Plated Plug-In Elements
 Many Standard Configurations
 Two Year Limited Warranty



Power Range	2.5kW to 60 kW (Defined by Elements)
Frequency Range	2 MHz to 1000 MHz (Defined by Elements)
VSWR	1.05:1 max
Impedance	50Ω
RF Connectors	4 1/16, type specified by model
Plating	Silver
Model Number(s) Single Socket	88505 = EIA Flanged 88506 = Unflanged Flush 88506-2 = Unflanged Recessed
Model Number(s) Dual Socket	88518 = EIA Flanged 88519 = Unflanged Flush 88519-2 = Unflanged Recessed 88540 = EIA Flanged Special, 1.661 inch Inner Diameter Center Conductor
Model Number(s) Triple Socket	88524 = Unflanged Flush 88524-2 = Unflanged Recessed

6 1/8 Inch Line Size

Silver Plated For High Conductivity
 Low Insertion VSWR
 Uses Standard Gold Plated Plug-In Elements
 Many Standard Configurations
 Two Year Limited Warranty



Power Range	2.5kW to 100 kW (Defined by Elements)
Frequency Range	2 MHz to 1000 MHz (Defined by Elements)
VSWR	1.05:1 max
Impedance	50Ω
RF Connectors	6 1/8, type specified by model
Plating	Silver
Model Number(s) Single Socket	88507 = EIA Flanged 88508 = Unflanged Flush 88508-2 = Unflanged Recessed
Model Number(s) Dual Socket	88520 = EIA Flanged 88521 = Unflanged Flush 88521-2 = Unflanged Recessed

Plug-In Elements



7/8 Inch Line Size for Average and Peak Power

- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Interchangeable With Competitive Models
- Rugged and Reliable
- Two Year Limited Warranty

100mW to 500mW Elements

100 mW	Model	100 mW	Model	250 mW	Model	500 mW	Model
20-23 MHz	820A022	400-420 MHz	820A410	70-80 MHz	820B075	25-30 MHz	820C028
44-50 MHz	820A047	450-470 MHz	820A460	72-76 MHz	820B074	65-90 MHz	820C078
62-70 MHz	820A066	740-760 MHz	820A750	105-120 MHz	820B113	72-76 MHz	820C074
72-76 MHz	820A074	800-900 MHz	820A850	130-150 MHz	820B140	105-120 MHz	820C113
105-120 MHz	820A113			150-180 MHz	820B165	130-170 MHz	820C150
125-136 MHz	820A130			310-350 MHz	820B330	240-290 MHz	820C265
135-165 MHz	820A150			416-436 MHz	820B426	300-350 MHz	820C325
160-175 MHz	820A167			800-900 MHz	820B850	450-470 MHz	820C460
190-205 MHz	820A198			900-950 MHz	820B925	800-900 MHz	820C850
310-350 MHz	820A330					900-950 MHz	820C925

1W to 2.5W Elements

1 watt	Model	1 watt	Model	2.5 watts	Model
28-44 MHz	820D036	310-350 MHz	820D330	60-80 MHz	820E070
40-50 MHz	820D045	327-543 MHz	820D435	80-140 MHz	820E110
44-70 MHz	820D057	425-850 MHz	820D638	95-150 MHz	820E123
70-120 MHz	820D095	800-950 MHz	820D875	150-250 MHz	820E200
108-118 MHz	820D113			200-300 MHz	820E250
108-181 MHz	820D145			225-400 MHz	820E313
150-250 MHz	820D200			275-450 MHz	820E363
200-300 MHz	820D250			340-560 MHz	820E450
275-450 MHz	820D363			800-950 MHz	820E875

5W to 5kW Elements

Power Rating	Frequency Range (MHz)							
	2-30	25-60	50-125	100-250	200-500	400-1000	950-1300	1100-1800
5 W	---	82012	82020	82028	82036	82045	82068	82079
10 W	---	82013	82021	82029	82037	82046	82069	82080
25 W	---	82014	82022	82030	82038	82047	82070	82081
50 W	82004	82015	82023	82031	82039	82048	82071	82082
100 W	82005	82016	82024	82032	82041	82049	82072	82083
250 W	82006	82017	82025	82033	82042	82050	82073	---
500 W	82007	82018	82026	82034	82043	82051	82074	---
1000 W	82008	82019	82027	82035	82044	82052	82075	---
2500 W	82009	---	---	---	---	---	---	---
5000 W	82010	---	---	---	---	---	---	---

5W to 5kW Elements (Peak Mode Only)

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
2500 W	---	82053	82054	82055	82056	82057
5000 W	---	82058	82059	82060	82061	82062
10000 W	82011	82063	82064	82065	82066	82067

Plug-In Elements

1 5/8 Inch Line Size Elements for Average or Peak Power

- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Interchangeable With Other Elements
- Rugged and Reliable
- Two Year Limited Warranty



250W to 25kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
250 W	---	82106	82113	82120	82127	82134
500 W	---	82107	82114	82121	82128	82135
1000 W	82101	82108	82115	82122	82129	82136
2500 W	82102	82109	82116	82123	82130	82137
5000 W	82103	82110	82117	82124	82131	82138
10 kW	82104	82111	82118	82125	82132	82139
25 kW	82105	82112	82119	---	---	---

300W to 30kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
300 W	---	82155	82162	82169	82174	82179
600 W	---	82156	82163	82170	82175	82180
1500 W	82150	82157	82164	82171	82176	82181
3000 W	82151	82158	82165	82172	82177	82182
6000 W	82152	82159	82166	82173	82178	82183
15 kW	82153	82160	82167	82184	82185	82186
30 kW	82154	82161	82168	---	---	---

1 5/8 Inch Line Size Elements for Digital Broadcast

- HDTV, DTV, CDMA, DAB and DMB Compatible
- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Rugged and Reliable
- Two Year Limited Warranty



100W to 10kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
100 W	92110	92118	92126	92134
250 W	92111	92119	92127	92135
500 W	92112	92120	92128	92136
1000 W	92113	92121	92129	92137
2500 W	92114	92122	92130	92138
5000 W	92115	92123	92131	92139
10 kW	92116	92124	92132	92140

300W to 6kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
300 W	92160	92166	92172	92178
600 W	92161	92167	92173	92179
1500 W	92162	92168	92174	92180
3000 W	92163	92169	92175	92181
6000 W	92164	92170	92176	92182

Plug-In Elements



3 1/8 Inch Line Size Elements for Average or Peak Power

- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Interchangeable With Other Elements
- Rugged and Reliable
- Two Year Limited Warranty

1kW to 50kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
1000 W	---	82306	82311	82316	82321	82326
2500 W	---	82307	82312	82317	82322	82327
5000 W	82301	82308	82313	82318	82323	82328
10 kW	82302	82309	82314	82319	82324	82329
25 kW	82303	82310	82315	82320	82325	82330
50 kW	82304	82331	82332	82333	82334	82335

300W to 30kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
1500 W	---	82354	82360	82366	82372	82378
3000 W	---	82355	82361	82367	82373	82379
6000 W	82350	82356	82362	82368	82374	82380
15 kW	82351	82357	82363	82369	82375	82381
30 kW	82352	82358	82364	82370	82376	82382
60 kW	82353	82359	82365	82371	82377	82383



3 1/8 Inch Line Size Elements for Digital Broadcast

- HDTV, DTV, CDMA, DAB and DMB Compatible
- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Rugged and Reliable
- Two Year Limited Warranty

1kW to 50kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
1000 W	92313	92322	92331	92340
2500 W	92314	92323	92332	92341
5000 W	92315	92324	92333	92342
10 kW	92316	92325	92334	92343
25 kW	92317	92326	92335	92344
50 kW	92318	92327	92336	92345

1.5kW to 30kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
1500 W	92362	92370	92378	92386
3000 W	92363	92371	92379	92387
6000 W	92364	92372	92380	92388
15 kW	92365	92373	92381	92389
30 kW	92366	92374	92382	92390

Plug-In Elements

4 1/16 Inch Line Size Elements for Average or Peak Power

- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Interchangeable With Other Elements
- Rugged and Reliable
- Two Year Limited Warranty



2.5kW to 100kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
2500 W	---	---	82413	82419	82424	82429
5000 W	---	---	82414	82420	82425	82430
10 kW	---	---	82415	82421	82426	82431
25 kW	---	---	82416	82422	82427	82432
50 kW	---	---	82417	82423	82428	82433
100 kW	---	---	---	---	---	---

3kW to 60kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	50-125	100-250	200-500	400-1000
3000 W	82456	82461	82466	82471
6000 W	82457	82462	82467	82472
15 kW	82458	82463	82468	82473
30 kW	82459	82464	82469	82474
60 kW	82460	82465	82470	82475

4 1/16 Inch Line Size Elements for Digital Broadcast

- HDTV, DTV, CDMA, DAB and DMB Compatible
- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Rugged and Reliable
- Two Year Limited Warranty



2.5kW to 100kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
2500 W	92413	92422	92431	92440
5000 W	92414	92423	92432	92441
10 kW	92415	92424	92433	92442
25 kW	92416	92425	92434	92443
50 kW	92417	92426	92435	92444
100 kW	92418	92427	92436	92445

300W to 6kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
3000 W	92462	92470	92478	92486
6000 W	92463	92471	92479	92487
15 kW	92464	92472	92480	92488
30 kW	92465	92473	92481	92489
60 kW	92466	92474	92482	92490

Plug-In Elements



6 1/8 Inch Line Size Elements for Average or Peak Power

- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Interchangeable With Other Elements
- Rugged and Reliable
- Two Year Limited Warranty

2.5kW to 100kW for 5/10/25 Scale Meters

Power Rating	Frequency Range (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
2500 W	---	---	82615	82622	---	82634
5000 W	---	---	82616	82623	---	82635
10 kW	---	---	82617	82624	---	82636
25 kW	---	---	82618	82625	---	82637
50 kW	---	---	82619	82626	---	82638
100 kW	---	---	82620	82627	---	82639

3kW to 60kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	50-125	100-250	200-500	400-1000
3000 W	82656	82661	82666	82671
6000 W	82657	82662	82667	82672
15 kW	82658	82663	82668	82673
30 kW	82659	82664	82669	82674
60 kW	82660	82665	82670	82675

6 1/8 Inch Line Size Elements for Digital Broadcast

- HDTV, DTV, CDMA, DAB and DMB Compatible
- Gold Plated For High Conductivity
- NIST Traceable Standards For Accuracy
- Rugged and Reliable
- Two Year Limited Warranty

2.5kW to 100kW for 5/10/25 Scale Meters



Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
2500 W	92613	92622	92631	92640
5000 W	92614	92623	92632	92641
10 kW	92615	92624	92633	92642
25 kW	92616	92625	92634	92643
50 kW	92617	92626	92635	92644
100 kW	92618	92627	92636	92645

3kW to 60kW Elements for 15/30/60 Scale Meters

Power Rating	Frequency Range (MHz)			
	54-108	100-216	470-608	614-806
3000 W	92662	92670	92678	92686
6000 W	92663	92671	92679	92687
15 kW	92664	92672	92680	92688
30 kW	92665	92673	92681	92689
60 kW	92666	92674	92682	92690

Plug-In Elements

X-Tractor Series RF Adjustable Coupler Elements

Gold Plated For High Conductivity
 Use as Variable Broadband Coupler or Attenuator
 BNC Female Connector Provides RF Power Sampling
 Low Insertion Loss
 Two Year Limited Warranty



Power Range	Determined by Line Section (ordered separately)
Frequency Range	2 MHz to 1000 MHz
VSWR	1.1:1 max 2 to 512 MHz, 1.25:1 max 512 to 1000 MHz
Insertion Loss	0.1 dB max 2 to 512 MHz, 0.2 dB max 512 to 1000 MHz
Accuracy	±5% of full scale
Impedance	50Ω
Weight	1.25 oz. (35 g)
Model Numbers(s)	87004 = 7/8" Line Size, 43dB ± 8dB 87005 = 7/8 inch Line Size, Coupling 45dB ± 8dB 87021 = 1 5/8 inch Line Size, Coupling 49dB ± 8dB 87031 = 1 5/8 inch Line Size, Coupling 56dB ± 8dB

X-Tractor Series RF Directional Coupler Elements

Gold Plated For High Conductivity
 Use as Broadband Directional Coupler or Attenuator
 BNC Female Connector Provides RF Power Sampling
 Low Insertion Loss
 Two Year Limited Warranty



Power Range	Determined by Line Section (ordered separately)
Frequency Range	2 MHz to 1000 MHz
VSWR	1.1:1 max
Insertion Loss	0.1 dB max
Accuracy	±5% of full scale
Impedance	50Ω
Directivity	30 dB
Weight	1.25 oz. (35 g)

Model	Line Size	Max Power	Coupling (dB)	Frequency Range
*87014S	7/8"	1000 W	37.5 +/- .75 dB	54 to 90 MHz
*87015	7/8"	1000 W	50 +/- 1 dB	50 to 500 MHz
87016	7/8"	1000 W	37.5 +/- .75 dB	174 to 230 MHz
*87024	1-5/8"	1000 W	40 +/- 1 dB	50 to 500 MHz
87024H	1-5/8"	5000 W	40 +/- 1 dB	50 to 500 MHz
87025	1-5/8"	10 kW	50 +/- 1 dB	50 to 500 MHz
87026	1-5/8"	2500 W	45 +/- 1 dB	400 to 800 MHz
87027	1-5/8"	5000 W	50 +/- 1 dB	400 to 800 MHz
87035	3-1/8"	10 kW	50 +/- 1 dB	50 to 500 MHz
87035H	3-1/8"	35 kW	50 +/- 1 dB	50 to 500 MHz
87036	3-1/8"	100 kW	60 +/- 1 dB	50 to 500 MHz
87038	3-1/8"	5000 W	50 +/- 1 dB	400 to 800 MHz
87039	3-1/8"	10 kW	70 +/- 1 dB	400 to 800 MHz
87046	4-1/16"	50 kW	60 +/- 1 dB	50 to 500 MHz
87066	6-1/8"	50 kW	60 +/- 1 dB	50 to 500 MHz

* +/- 1 dB at 174 to 500 MHz, Coupling drops to 48 dB at 50 MHz



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