

# ACCESSORIES

## Duplexer & Triplexer



CFX-431



CFX-514



CF-530



CF-706



CF-360



CF-413



CF-416



CF-4160

Model	Frequency	Connector	Insertion loss	VSWR	Isolation	Power rating
<b>Triplexer</b>						
CFX-431A CFX-431B CFX-431D	144/430/ 1200MHz	CFX-431A CFX-431B CFX-431D 	1.3 to 150MHz:Less than 0.2dB 350 to 500MHz:Less than 0.3dB 840 to 1400MHz:Less than 0.4dB	Less than 1:1.2	More than 50db	1.3 to 60MHz:1000W (PEP) 100 to 150MHz:800W (PEP) 350 to 500MHz:500W (PEP) 840 to 1400MHz:200W (PEP)
CFX-514 CFX-5140 CFX-514J CFX-514N	50/144/ 430MHz	CFX-514 CFX-5140 CFX-514J CFX-514N 	1.3 to 90MHz:Less than 0.2dB 130 to 200MHz:Less than 0.25dB 380 to 500MHz:Less than 0.3dB	Less than 1:1.2	More than 55db	1.3 to 90MHz:800W (PEP) 130 to 200MHz:800W (PEP) 380 to 500MHz:500W (PEP)
<b>Duplexer</b>						
CF-530	50/144MHz		1.3 to 90MHz:Less than 0.2dB 125 to 470MHz:Less than 0.3dB	Less than 1.2	More than 45db	1.3 to 30MHz:600W (PEP) 50/144MHz:600W (PEP)
CF-706	50/144MHz		1.3 to 57MHz:Less than 0.4dB 75 to 550MHz:Less than 0.4dB	Less than 1.2	More than 40db	50MHz:350W (PEP) 144MHz:350W (PEP)
CF-360 CF-360B CF-306A CF-306B CF-306C	28/50MHz	CF-360 CF-360B CF-306A CF-306B CF-306C 	1.3 to 30MHz:Less than 0.2dB 49 to 470MHz:Less than 0.25dB	Less than 1.2	More than 45db	1.3 to 30MHz:600W (PEP) 50/144MHz:600W (PEP)
CF-413B CF-413D	430/ 1200MHz	CF-413B CF-413D 	1.3 to 460MHz:Less than 0.25dB 840 to 1400MHz:Less than 0.4dB	Less than 1.2	More than 55db	1.3 to 150MHz:800W (PEP) 350 to 500MHz:500W (PEP) 840 to 1400MHz:200W (PEP)
CF-416A CF-416B CF-416C	144/ 430MHz	CF-416A CF-416B CF-416C 	1.3 to 170MHz:Less than 0.15dB 350 to 540MHz:Less than 0.25dB	Less than 1.2	More than 60db	1.3 to 170MHz:800W (PEP) 350 to 540MHz:500W (PEP)
CF-4160A CF-4160J	144/430MHz	CF-4160A CF-4160J 	1.3 to 170MHz:Less than 0.1dB 350 to 540MHz:Less than 0.2dB	Less than 1.2	More than 60db	1.3 to 170MHz:800W (PEP) 350 to 540MHz:500W (PEP)

## Surge Protector



CS-400P

Model	Frequency	Connector	Insertion loss	VSWR	Power rating	Dimensions	Weight	Impedance
<b>Surge Protector</b>								
CS-400R	DC to 500MHz	MJ-MJ	Less than 0.1dB	Less than 1.1	500W (PEP)	66×41×20mm	80g	50Ω
CS-400P	DC to 500MHz	MJ-MP	Less than 0.1dB	Less than 1.1	500W (PEP)	74×41×20mm	95g	50Ω
CS-290R	DC to 1500MHz	NJ-NJ	Less than 0.1dB	Less than 1.1	300W (PEP)	76×41×20mm	100g	50Ω
CS-290P	DC to 1500MHz	NJ-NP	Less than 0.1dB	Less than 1.1	300W (PEP)	86×41×20mm	130g	50Ω

## Speaker



CSP-80



CSP-60



CSP-30



CB-980

Model	Power rating	Dimensions	Weight
<b>Speaker</b>			
CSP-80	10W (Max.input)	131W×106H×39Dmm	328g
CSP-60	8W (Max.input)	120W×97H×47Dmm	273g
CSP-30	5W (Max.input)	81W×78H×47Dmm	170g
CB-980	5W (Max.input)	110W×64H×55Dmm	278g

## Coaxial Switch & Splitter/Combiner for Receiving



CSW-201G



CSW-201GN



CAS-900

Model	Frequency	Connector	Insertion loss	VSWR	Isolation	Power rating	Dimensions	Weight	Impedance
<b>Coaxial Switch</b>									
CSW-201G	DC to 600MHz	MJ	Less than 0.12dB	Less than 0.12	More than 60dB	DC to 30MHz:1500W (PEP) 30 to 150MHz:1000W (PEP) 150 to 600MHz:500W (PEP)	72×78×47mm	430g	50Ω
CSW-201GN	DC to 1800MHz	NJ	Less than 0.12dB	DC to 600MHz:Less than 1.2 600 to 1800MHz:Less than 1.3	DC to 600MHz:More than 60dB 600 to 1800MHz:More than 45dB	DC to 30MHz:1500W (PEP) 30 to 600MHz:500W (PEP) 600 to 1800MHz:150W (PEP)	72×78×47mm	430g	50Ω
<b>Splitter/Combiner for Receiving</b>									
CAS-900	0.1 to 900MHz	MJ×3	0.5dB typ.	Less than 1.5 (2.0 for 900MHz)	20dB typ.	—	90×27×88mm	170g	50Ω

# ACCESSORIES

## Dummy Load



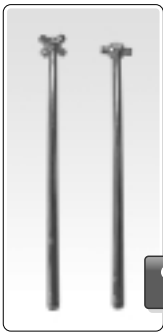
DL-1500C



D21M

Model	Frequency	Connector	Insertion loss	VSWR	Power rating	Dimensions	Impedance
<b>Dummy Load</b>							
D21M	DC to 600MHz	MP	—	Less than 1.15	15W (VAG) /100W (PEP)	—	50Ω
DL-1500C	0.3 to 600MHz	MJ	Less than 0.12dB	—	1500W (10sec) /500W (40sec)	100X150X280mm	50Ω
DL-1500CN	0.3 to 600MHz	NJ	Less than 0.12dB	—	1500W (10sec) /500W (40sec)	100X150X280mm	50Ω

## Coaxial distributor



CA-144N4/  
CA144N2



CA-430N4/  
CA-430N2



CA-1200N4/  
CA1200N2



CA-2400N2

Model	Frequency	Power rating	Impedance
<b>Coaxial distributor</b>			
CA-1200N2	1260 to 1300MHz	300W	50Ω
CA-430N2	430 to 450MHz	500W	50Ω
CA-144N2	144 to 148MHz	1KW	50Ω
CA-1200N4	1260 to 1300MHz	300W	50Ω
CA-430N4	430 to 450MHz	500W	50Ω
CA-144N4	144 to 148MHz	1KW	50Ω
CA-2400N2	2400 to 2500MHz	200W	50Ω

## Filter



TRF 30

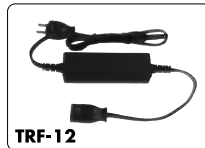
TF-5000



LPF50L



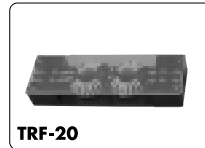
TF-400



TRF-12



TRF-15



TRF-20

Model	Frequency	Connector	Power rating	Impedance	Type
<b>Filter</b>					
LPF30L	1.3 to 30MHz	MJ	300W/A3J (SSB) ,150W/F3 (FM)	50Ω	
LPF50L	1.3 to 55MHz	MJ	300W/A3J (SSB) ,150W/F3 (FM)	50Ω	
CF-30S	Cutoff 32MHz	MJ	150W (CW)	50Ω	
CF-50S	Cutoff 57MHz	MJ	150W (CW)	50Ω	
CF-30MR	Cutoff 32MHz	MJ	1KW (CW)	50Ω	
CF-50MR	Cutoff 57MHz	MJ	1KW (PEP)	50Ω	
TF-400	1.3 to 500MHz	MJ	400W (Less than 30MHz)	50Ω	Diameter:40mm, Length:350mm
TF-1800	1.3 to 500MHz	MJ	800W (Less than 30MHz)	50Ω	Diameter:40mm, Length:350mm
TF-5000	1.3 to 500MHz	MJ	5KW (Less than 30MHz)	50Ω	Diameter:54mm, Length:322mm
TRF-12	—	—	—	—	AC/DC line filter for 12A (outlet type)
TRF-15	—	—	—	—	AC/DC line filter for 15A
TRF-20	—	—	—	—	AC/DC line filter for 20A
TRF-30	—	—	—	—	AC/DC:30Amax

## Switching Power Supply & DC Regulator



CPS3200



CDC3200



CDC1600

Model	Input Voltage	Output Voltage	Output Voltage	Dimensions	Weight	Type
<b>Switching Power Supply &amp; DC Regulator</b>						
CPS3200	AC90 to 120V (50/60Hz)	DC5 to 15V (variable)	30A (continuous)	D205×W162×H87mm	about 2.0kg	Constant voltage stabilization power supply
CDC3200	DC24V	13.8V	30A (continuous)	D205×W162×H87mm	1.9kg	DC to DC Converter
CDC1600	DC24V	13.8V	15A (continuous)	D150×W150×H70mm	1kg	DC to DC Converter

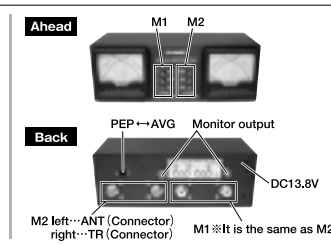
## SWR/POWER Meter



CMX-1



CMX2300 T

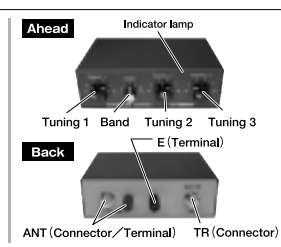


Model	Frequency	Connector	Insertion loss	SWR	Power display rating	Accuracy of full scale	Minimum power at SWR measurement	Dimensions	Weight	Impedance	Power supply	Current	Type
<b>SWR/POWER Meter</b>													
CMX-1	1.8 to 60MHz	M	Less than 0.2dB	1.0 to ∞	30/300/3KW	±10%	6W	D43×W120×H80mm	230g	50Ω	DC11 to 15V (350mA)	0 to 2KW	
CMX2300 T	1.8to200MHz (M1) 140to525MHz (M2)	M	Less than 0.2dB Less than 0.3dB	1.0 to ∞	30/300/3kw (M1) 20/50/200w (M2)	±10%	6W	D125×W250×H100mm	1.4kg	50Ω	DC13.8V	0 to 2KW 0 to 200W	Display illumination 12V

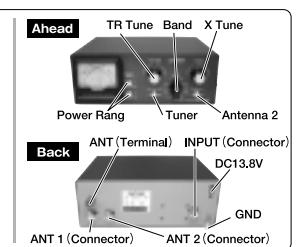
## Antenna Coupler & Tuner



CAT10



CAT300



Model	Frequency	Input impedance	Output impedance	Power rating	Connector	Minimum power at SWR measurement	Domention	Weight	Poewr supply	Type
<b>Antenna Coupler &amp; Tuner</b>										
CAT10	3.5to50MHz	50~600Ω	50Ω	10W	MJ	1W	D120×W162×H58mm	900g	—	
CAT300	1.8to60MHz	10~600Ω	50Ω	300W	MJ	6W	D240×W255×H97mm	2.6Kg	DC13.8V	Display illumination 12V

# ACCESSORIES

## Handheld Transceivers

### Earphone Mic



CEM100



CEM200



CEM195



CEM-295



CEM450



ML900

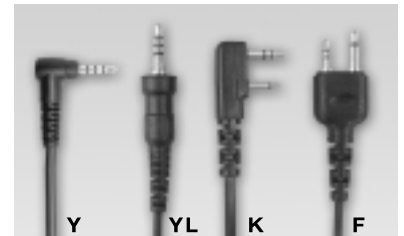


CNM300



CTM480

### ■ Connector



F: for ICOM, ALINCO  
 K: for KENWOOD  
 Y: for YAESU  
 YL: for STANDARD

Model	Connector				Frequency	Power	Impedance	Slide Lock PTT Switch	Remote PTT Switch
	F	K	Y	YL					
CEM100	○	○	○	○	20Hz to 20KHz (Microphone) /450Hz to 20KHz (Earphone)	50mW	32Ω	—	—
CEM200	○	○	○	○	20Hz to 20KHz (Microphone) /300Hz to 7500Hz (Earphone)	500mW	32Ω	—	—
CEM195	○	○	○	○	20Hz to 20KHz (Microphone) /450Hz to 20KHz (Earphone)	30mW	32Ω	○	—
CEM295	○	○	○	○	20Hz to 20KHz (Microphone) /300Hz to 7500Hz (Earphone)	500mW	32Ω	○	—
CEM450	○	○	○	○	20Hz to 20KHz (Microphone) /750Hz to 9300Hz (Earphone)	30mW	110Ω	—	—
ML900	○	○	—	○	—	—	8Ω	—	○
CNM300	○	○	○	—	20Hz to 20KHz (Microphone) /450Hz to 20KHz (Earphone)	30mW	32Ω	○	—
CTM480	○	○	○	○	1.2 to 12KHz (SP) /50 to 12KHz (MIC)	—	110Ω (KENWOOD) 16Ω (Other)	○	○

## Earphone



CEP400F/K

Frequency:750 to 9300Hz (Earphone)  
Power:30mW  
Impedance:110Ω



CEP500F/K (PAT.P)

Frequency:750 to 9300Hz  
Power:30mW Max. Impedance:110Ω



H250F/K (PAT.P)

Frequency:750 to 20000Hz  
Power:50mW Max.  
Impedance:32Ω



H-200F/K

Power:0.5W  
Impedance:32Ω  
Length:0.9m



H-20F/H-20K/H-20YL

Power:0.1W Impedance:36Ω  
Length:1m

## Remote PTT Switch



PS8



PS8F



PS8R



PS8RC

## Handy Mic



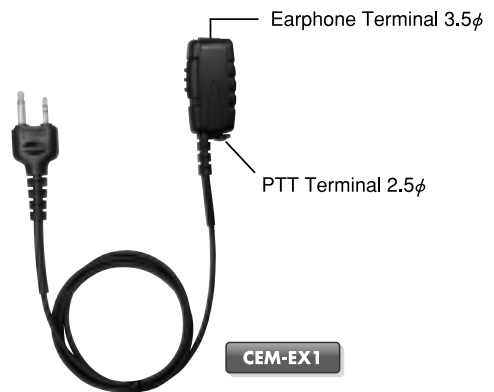
HM-M40

Length:1.2m



HM-S9

## Connector with Mic



CEM-EX1

Model	Connector				Frequency	Power	Impedance	Slide Lock PTT Switch	Remote PTT Switch	Earphone	Type
	F	K	Y	YL							
HM-S9	○	○	○	—	—	200mW	8Ω (SP)/1KΩ (MIC)	—	—	○	Five kinds of earphone that can be chosen CEP400K/CEP500K/H20K/H200K/H250K
CEM-EX1	○	○	○	○	20Hz to 20KHz	—	—	○	○	○	Five kinds of earphone that can be chosen CEP400F/CEP500F/H20F/H200F/H250F