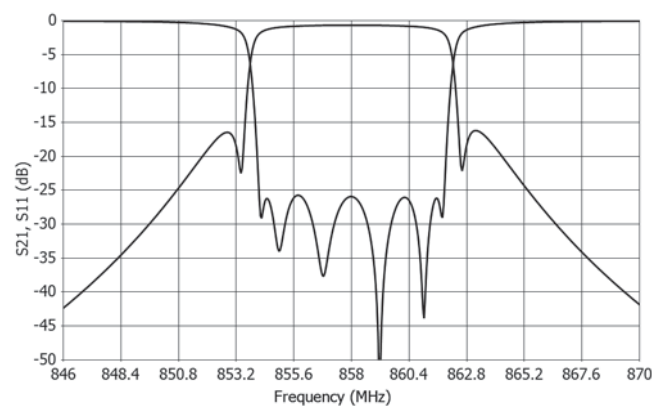
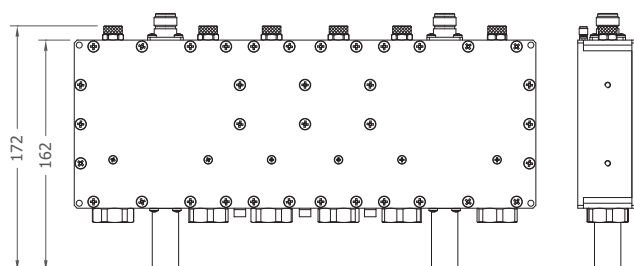


UHF 100 W 6/7-Pole Bandpass Filter

CL6X30C
CL7X30C

ISDB



TUNING DATA

DVB 8 MHz N.C.M. (CL6X30C)

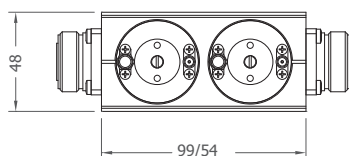
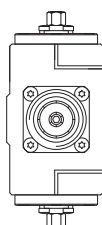
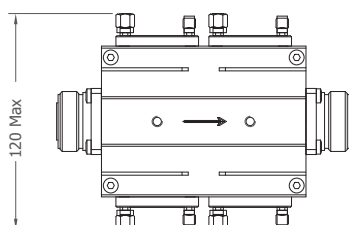
DVB 8 MHz C.M. (CL7X30C)

ATSC Simple M. (CL6X30C)

Insertion Loss	< 1.00 dB @ C.F. < 2.70 dB @ C.F. ± 3.8 MHz	< 1.40 dB @ C.F. < 4.80 dB @ C.F. ± 3.8 MHz	< 1.20 dB @ C.F. < 2.20 dB @ C.F. ± 2.7 MHz
Selectivity	> 5 dB @ C.F. ± 4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ± 4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ± 3.5 MHz > 24 dB @ C.F. ± 6 MHz > 36 dB @ C.F. ± 9 MHz
Harmonic Attenuation with LC39C	> 50 dB up to 1.8 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.8 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.8 GHz > 50 dB up to 3.0 GHz
Return Loss	> 24 dB (VSWR < 1.13)	> 22 dB (VSWR < 1.17)*	> 24 dB (VSWR < 1.13)
Group Delay Variation	< 200 ns	< 320 ns	< 150 ns
Over-Temperature	< 23 K @ 100 W DTV	< 26 K @ 100 W DTV	< 26 K @ 100 W DTV

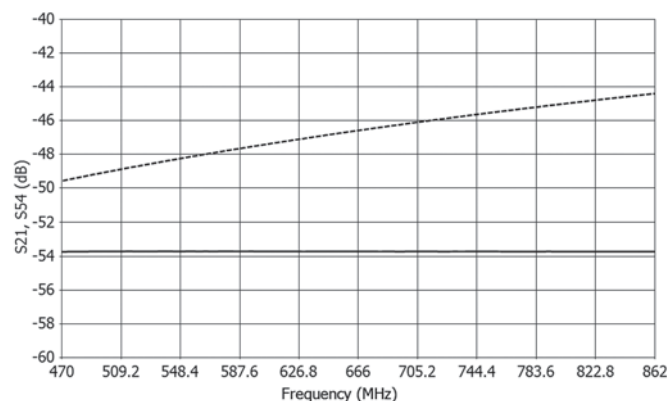
*Within C.F. ± 3.7 MHz

UHF/VHF 2 kW 2/4-Slot Directional Coupler

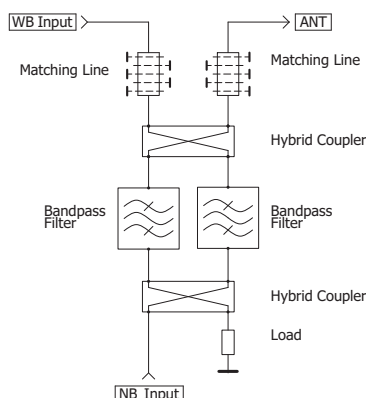
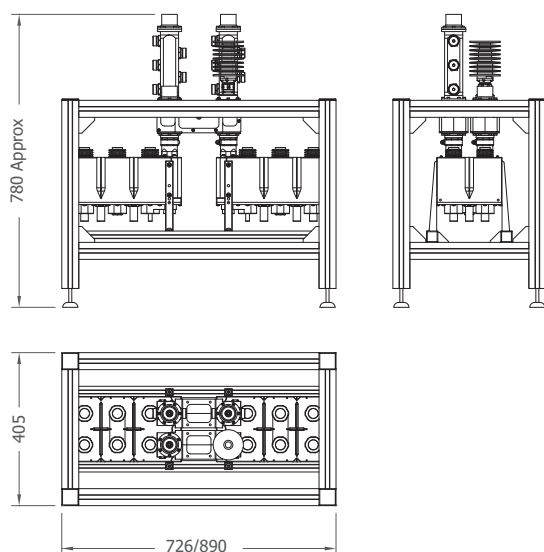
DC2A23/nABC
DC4A23/nABCDC
Series32
mm
Connectors

SPECIFICATIONS

	DC2A23/nM	DC4A23/nM
Product Code	C-DC2A23/nM-xx-yy	C-DC4A23/nM-xx-yy
Project Number	J-105-01	J-071-01
Frequency Range	470 – 862 MHz (/nC) 174 – 240 MHz (/nB) 41 – 100 MHz (/nA)	
No. of slots	2	4
Max Output Power	2 kW DTV (3 kW ATV)	
Coupling	-36 to -60 dB (on any channel)	
Coupling variation	< ±0.15 dB 470 – 862 MHz (/nC) < ±0.15 dB 174 – 240 MHz (/nB)	
Return Loss	> 30 dB (VSWR < 1.07)	
Directivity	> 30 dB	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Aluminum, passivated	
Dimensions	54 x 48 x 120 mm	99 x 48 x 120 mm
Weight	0.9 kg (2 lb)	1.5 kg (3.3 lb)
Connectors Interface	2 x 32mm Series	
Connectors	D-PC32C N Female D-PC32D N Male D-PC32E 7-16 Female (Default) D-PC32F 7-16 Male D-PC32G EIA 7/8" FastLine Socket D-PC32H EIA 7/8" FastLine Flange D-PC32I EIA 7/8" FastLine Plug	
Options	O-DX.01 UHF SMA Female probe O-DX.02 VHF B.III SMA Female probe O-DX.03 VHF B.I-II SMA Female probe O-DN.01 UHF SMA Female probe, Non-Eq. O-DN.02 VHF B.III SMA Female probe, Non-Eq. O-DZ.01 N Female connector on probe	



UHF 5 kW 6/8-Pole Balanced Combiner

DM6D80C
DM8D80C

SPECIFICATIONS

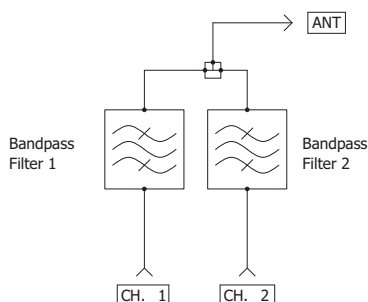
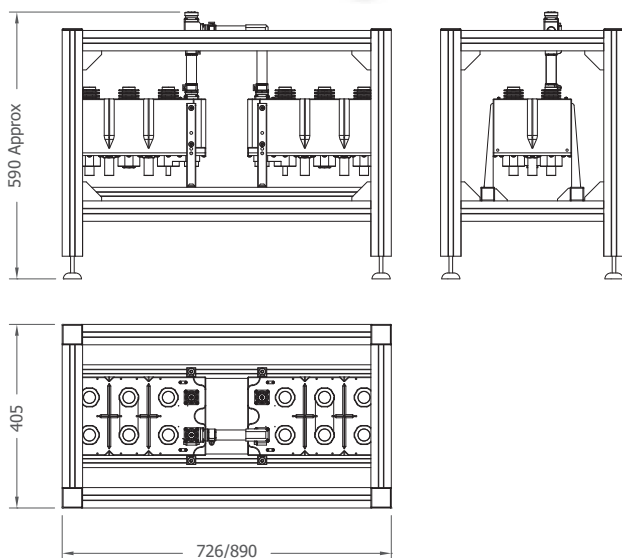
	DM6D80C	DM8D80C
Product Code	B-DM6D80C-xxx-yy	B-DM8D80C-xxx-yy
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	FCC Mask	FCC Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Eil. Resp.	8-Pole Eil. Resp.
Max NB Input Power	1 kW DTV (1.5 kW ATV)	
Max Output Power	5 kW DTV (7.5 kW ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	726 x 405 x 780 mm	890 x 405 x 780 mm
Weight	35 kg (77 lb)	41 kg (90 lb)
Part List	2 x FC6D80C 2 x HC60C 2 x ML39C 1 x DH75C	2 x FC8D80C 2 x HC60C 2 x ML39C 1 x DH75C
Links	EIA 1+5/8" Rigid Line Link	
Frame	Semi-Modular Frame (N≥2)	
Connectors Interface	3 x 64mm Series	
Connectors	D-PC64E 7-16 Female D-PC64F 7-16 Male D-PC64G EIA 7/8" FastLine Socket D-PC64H EIA 7/8" FastLine Flange D-PC64I EIA 7/8" FastLine Plug D-PC64J EIA 1+5/8" FastLine Socket (Default) D-PC64K EIA 1+5/8" FastLine Flange (output) D-PC64L EIA 1+5/8" FastLine Plug	
Options	O-HF.01 Heat Sink add-on O-FS.03 Semi-Modular Frame (N=1)	

TUNING DATA*

	DVB 8 MHz N.C.M. (DM6D80C)	DVB 8 MHz C.M. (DM8D80C)	ATSC FCC M. (DM6D80C)
NB Insertion Loss	< 0.46 + 0.05·N dB @ C.F. < 1.60 + 0.05·N dB @ C.F. ±3.8 MHz	< 0.71 + 0.05·N dB @ C.F. < 2.59 + 0.05·N dB @ C.F. ±3.8 MHz	< 0.72 + 0.05·N dB @ C.F. < 1.22 + 0.05·N dB @ C.F. ±2.7 MHz
WB Insertion Loss	< 0.05·N dB	< 0.05·N dB	< 0.05·N dB
Selectivity	> 5 dB @ C.F. ±4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ±4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ±3.5 MHz > 29 dB @ C.F. ± 6 MHz > 63 dB @ C.F. ± 9 MHz
Return Loss**	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)
De-coupling	> 30 dB	> 30 dB	> 30 dB
NB Group Delay Variation	< 250 ns	< 450 ns	< 150 ns
Over-Temperature with O-HF.01	< 24 K @ 1 kW DTV < 19 K @ 1 kW DTV	< 27 K @ 1 kW DTV < 22 K @ 1 kW DTV	< 27 K @ 1 kW DTV < 22 K @ 1 kW DTV

*Non Adjacent Channels ** WB: one channel optimization

UHF 500 W 6/8-Pole Starpoint Combiner

SP6D80C
SP8D80C

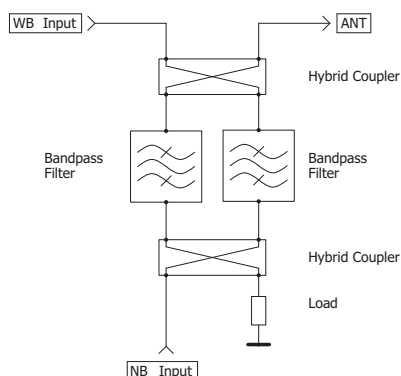
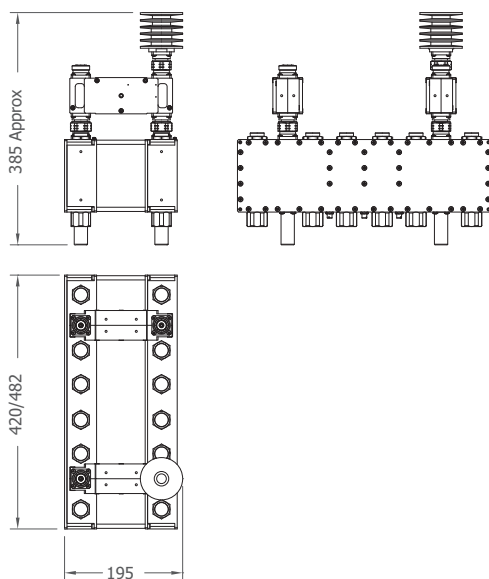
SPECIFICATIONS

	SP6D80C	SP8D80C
Product Code	B-SP6D80C-xxx-yy	B-SP8D80C-xxx-yy
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	FCC Mask	FCC Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Ch. Distance	1 guard ch.	
Order	6-Pole Ell. Resp.	8-Pole Ell. Resp.
Max Input Power	500+500 W DTV (750+750 W ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	726 x 405 x 590 mm	890 x 405 x 590 mm
Weight	28 kg (61.5 lb)	34 kg (75 lb)
Part List	2 x FC6D80C	2 x UHF FC8D80C
Links	EIA 7/8" R.L. Link	
Frame	-	
Connectors Interface	3 x 32mm Series	
Connectors	D-PC32E D-PC32G D-PC32H	7-16 Female (Default) EIA 7/8" FastLine Socket EIA 7/8" FastLine Flange
Options	O-HF.01 O-FS.03	Heat Sink add-on Semi-Modular Frame

TUNING DATA

	DVB 8 MHz N.C.M. (SP6D80C)	DVB 8 MHz .C.M. (SP8D80C)	ATSC FCC M. (SP6D80C)
Insertion Loss	< 0.46 +0.10 dB @ C.F. < 1.60 +0.10 dB @ C.F. ±3.8 MHz	< 0.71 +0.10 dB @ C.F. < 2.59 +0.10 dB @ C.F. ±3.8 MHz	< 0.72 +0.10 dB @ C.F. < 1.22 +0.10 dB @ C.F. ±2.7 MHz
Selectivity	> 5 dB @ C.F. ±4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ±4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ±3.5 MHz > 29 dB @ C.F. ± 6 MHz > 63 dB @ C.F. ± 9 MHz
Return Loss	> 24 dB (VSWR < 1.13)	> 24 dB (VSWR < 1.13)	> 24 dB (VSWR < 1.13)
De-coupling	> 30 dB	> 30 dB	> 30 dB
Group Delay Variation	< 250 ns	< 450 ns	< 150 ns
Over-Temperature with O-HF.01	< 24 K @ 500 W DTV < 19 K @ 500 W DTV	< 27 K @ 500 W DTV < 22 K @ 500 W DTV	< 27 K @ 500 W DTV < 22 K @ 500 W DTV

UHF 2 kW 6/7-Pole Balanced Combiner

DB6X50C
DB7X50C

SPECIFICATIONS

	DB6X50C	DB7X50C
Product Code	B-DB6X50C-xxx-yy	B-DB7X50C-xxx-yy
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	Simple Mask	Stringent M.
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Eil. Resp.	7-Pole Eil. Resp.
Max NB Input Power	500 W DTV (750 W ATV)	
Max Output Power	2 kW DTV (3 kW ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	195 x 420 x 385 mm	195 x 482 x 385 mm
Weight	10 kg (22 lb)	11 kg (24 lb)
Part List	2 x CL6X50C 2 x HC40C 1 x DH30C	2 x CL7X50C 2 x HC40C 1 x DH30C
Links	7-16 3U Matching Bridge Link	
Frame	Encased Frame (N≥2)	
Connectors Interface	3 x 32mm Series	
Connectors	D-PC32E 7-16 Female (Default) D-PC32G EIA 7/8" Socket D-PC32H EIA 7/8" Flange D-PC32J EIA 1+5/8" Socket D-PC32K EIA 1+5/8" Flange	
Options	O-LM.01 EIA 7/8" M.L. section O-FE.03 Encased Frame (N=1)	

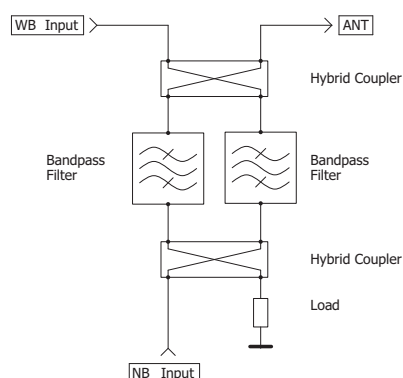
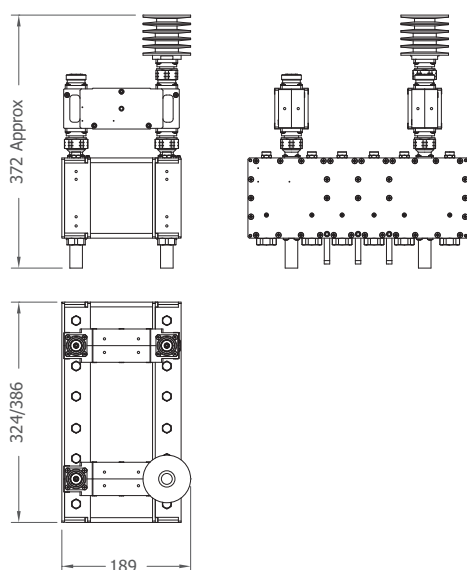
TRANSMITTING COMBINERS
UHF

TUNING DATA*

	DVB 8 MHz N.C.M. (DB6X50C)	DVB 8 MHz C.M. (DB7X50C)	ATSC Simple M. (DB6X50C)
NB Insertion Loss	< 0.75 +0.05-N dB @ C.F. < 2.00 +0.05-N dB @ C.F. ±3.8 MHz	< 1.00 +0.05-N dB @ C.F. < 3.60 +0.05-N dB @ C.F. ±3.8 MHz	< 0.90 +0.05-N dB @ C.F. < 1.50 +0.05-N dB @ C.F. ±2.7 MHz
WB Insertion Loss	< 0.05-N dB	< 0.05-N dB	< 0.05-N dB
Selectivity	> 5 dB @ C.F. ±4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ±4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ±3.5 MHz > 24 dB @ C.F. ± 6 MHz > 36 dB @ C.F. ± 9 MHz
Return Loss**	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)
De-coupling	> 30 dB	> 30 dB	> 30 dB
NB Group Delay Variation	< 200 ns	< 350 ns	< 150 ns
Over-Temperature	< 30 K @ 500 W DTV	< 34 K @ 500 W DTV	< 34 K @ 500 W DTV

*Non Adjacent Channels ** WB: one channel optimization

UHF 1 kW 6/7-Pole Balanced Combiner

DB6X30C
DB7X30C

SPECIFICATIONS

	DB6X30C	DB7X30C
Product Code	B-DB6X30C-xxx-yy	B-DB7X30C-xxx-yy
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	Simple Mask	Stringent M.
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Ell. Resp.	7-Pole Ell. Resp.
Max NB Input Power	200 W DTV (300 W ATV)	
Max Output Power	1 kW DTV (1.5 kW ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	189 x 324 x 372 mm	189 x 386 x 372 mm
Weight	7.5 kg (16.5 lb)	8.5 kg (18.5 lb)
Part List	2 x CL6X30C 2 x HC40C 1 x DH30C	2 x CL7X30C 2 x HC40C 1 x DH30C
Links	7-16 3U Matching Bridge Link	
Frame	Encased Frame (N≥2)	
Connectors Interface	3 x 32mm Series	
Connectors	D-PC32C N Female D-PC32E 7-16 Female (Default) D-PC32G EIA 7/8" Socket D-PC32H EIA 7/8" Flange	
Options	O-LM.01 EIA 7/8" M.L. section O-RK.04 3U 19" Rack, w/ handles O-FE.01 Encased Frame (N=1)	

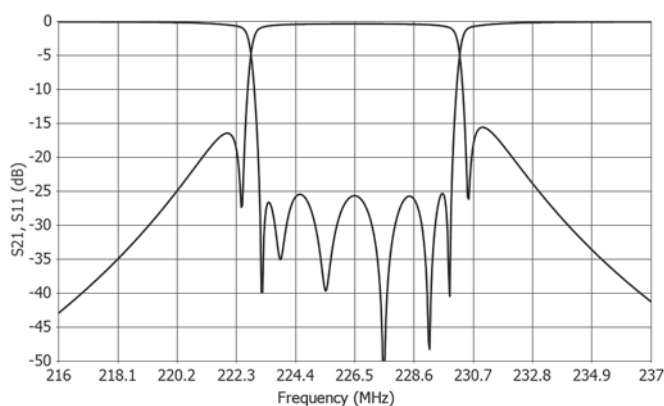
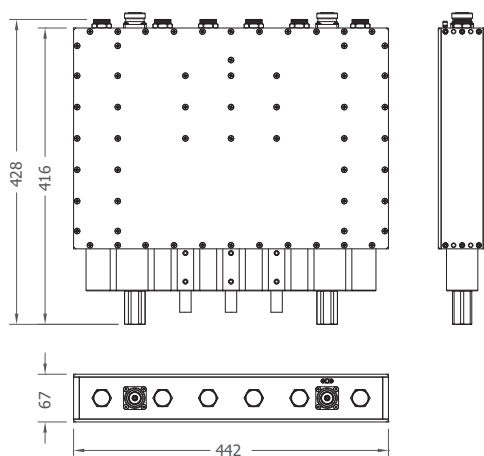
TUNING DATA*

	DVB 8 MHz N.C.M. (DB6X30C)	DVB 8 MHz C.M. (DB7X30C)	ATSC Simple M. (DB6X30C)
NB Insertion Loss	< 1.00 +0.05-N dB @ C.F. < 2.70 +0.05-N dB @ C.F. ±3.8 MHz	< 1.40 +0.05-N dB @ C.F. < 4.80 +0.05-N dB @ C.F. ±3.8 MHz	< 1.20 +0.05-N dB @ C.F. < 2.20 +0.05-N dB @ C.F. ±2.7 MHz
WB Insertion Loss	< 0.05-N dB	< 0.05-N dB	< 0.05-N dB
Selectivity	> 5 dB @ C.F. ±4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ±4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ±3.5 MHz > 24 dB @ C.F. ± 6 MHz > 36 dB @ C.F. ± 9 MHz
Return Loss**	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)	> 26 - 6·log N dB (VSWR < 1.11 + 0.12·log N)
De-coupling	> 30 dB	> 30 dB	> 30 dB
NB Group Delay Variation	< 200 ns	< 320 ns	< 150 ns
Over-Temperature	< 23 K @ 200 W DTV	< 26 K @ 200 W DTV	< 26 K @ 200 W DTV

*Non Adjacent Channels ** WB: one channel optimization

VHF B.III 1 kW 6-Pole Bandpass Filter

CL6X60B



SPECIFICATIONS

Product Code	A-CL6X60B-xx-yy
Project Number	J-093-01
DVB Mask	Non Critical Mask
ATSC Mask	Simple Mask
ISDB Mask	Non Critical Mask
Frequency Range	174 – 240 MHz
Bandwidth	6 to 8 MHz
Order	6-Pole Elliptical Response
Max Input Power	1 kW DTV (1.5 kW ATV)
Temperature Stability	< 4 kHz / K
Max Operating Temp.	70 °C (158 °F)
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60
Body Finish	Metallic black coloring
Dimensions	442 x 67 x 405 mm
Weight	12 kg (26.4 lb)
Output Monitor Probe	SMA Female
Connectors Interface	2 x 32mm Series
Connectors	D-PC25E 7-16 Female (Default) D-PC32G EIA 7/8" FastLine Socket D-PC32H EIA 7/8" FastLine Flange D-PC32J EIA 1+5/8" FastLine Socket D-PC32K EIA 1+5/8" FastLine Flange
Options	O-MR.01 SMB Output Monitor Probe O-RK.03 2U 19" Rack, w/ handles

TUNING DATA

DVB 7 MHz N.C.M.

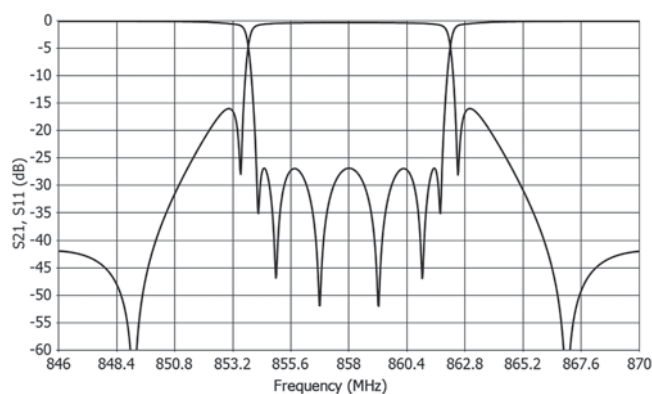
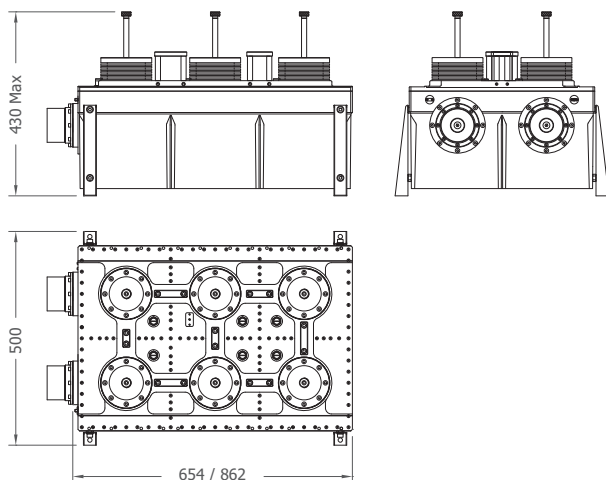
ATSC Simple M.

Insertion Loss	< 0.42 dB @ C.F. < 1.30 dB @ C.F. ± 3.325 MHz	< 0.45 dB @ C.F. < 0.80 dB @ C.F. ± 2.7 MHz
Selectivity	> 5 dB @ C.F. ± 3.675 MHz > 16 dB @ C.F. ± 5.25 MHz > 38 dB @ C.F. ± 10.5 MHz	> 10 dB @ C.F. ± 3.5 MHz > 24 dB @ C.F. ± 6 MHz > 36 dB @ C.F. ± 9 MHz
Harmonic Attenuation	> 50 dB up to 700 MHz	> 50 dB up to 700 MHz
Return Loss	> 24 dB (VSWR < 1.13)	> 24 dB (VSWR < 1.13)
Group Delay Variation	< 200 ns	< 150 ns
Over-Temperature	< 36 K @ 1 kW DTV	< 44 K @ 1 kW DTV

UHF 5-10 kW 6/8-Pole Bandpass Filter

TC6D200C
TC8D200C

ISDB



SPECIFICATIONS

	TC6D200C	TC8D200C
Product Code	A-TC6D200C-xx-yy	A-TC8D200C-xx-yy
Project Number	J-072-02	J-118-01
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	FCC Mask	FCC Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Ell. Resp.	8-Pole Ell. Resp.
Max Input Power with O-HL.05	5 kW DTV (7.5 kW ATV) 10 kW DTV (15 kW ATV)	
Liquid Flow (O-HL.05)	10 l/min (2.6 gal/min)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	654 x 500 x 430 mm	862 x 500 x 430 mm
Weight	58 kg (127.6 lb)	77.5 kg (170.5 lb)
Output Monitor Probe	SMA Female	
Connectors Interface	2 x 100mm Series	
Connectors	D-PC100M EIA 3+1/8" FastLine Socket (Default) D-PC100N EIA 3+1/8" FastLine Flange D-PC100P EIA 4+1/2" FastLine Socket D-PC100Q EIA 4+1/2" FastLine Flange	
Options	O-MR.01 SMB Output Monitor Probe O-MR.02 Output Monitor Probe on the left O-HF.04 Heat Sink add-on O-HL.05 Liquid Cooling add-on O-HZ.03 70°C (158°F) N.C. Thermoswitch	

TUNING DATA

	DVB 8 MHz N.C.M. (TC6D200C)	DVB 8 MHz C.M. (TC8D200C)	ATSC FCC M. (TC6D200C)
Insertion Loss	< 0.25 dB @ C.F. < 0.70 dB @ C.F. ±3.8 MHz	< 0.38 dB @ C.F. < 1.14 dB @ C.F. ±3.8 MHz	< 0.30 dB @ C.F. < 0.50 dB @ C.F. ±2.7 MHz
Selectivity	> 5 dB @ C.F. ±4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ±4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ±3.5 MHz > 29 dB @ C.F. ± 6 MHz > 63 dB @ C.F. ± 9 MHz
Harmonic Attenuation with LP77C	- > 50 dB up to 3.0 GHz	- > 50 dB up to 3.0 GHz	- > 50 dB up to 3.0 GHz
Return Loss	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)
Group Delay Variation	< 250 ns	< 450 ns	< 150 ns
Over-Temperature with O-HF.04	< 34 K @ 5 kW DTV	< 38 K @ 5 kW DTV	< 39 K @ 5 kW DTV
with O-HL.05	< 27 K @ 5 kW DTV < 20 K @ 10 kW DTV	< 30 K @ 5 kW DTV < 22 K @ 10 kW DTV	< 31 K @ 5 kW DTV < 23 K @ 10 kW DTV

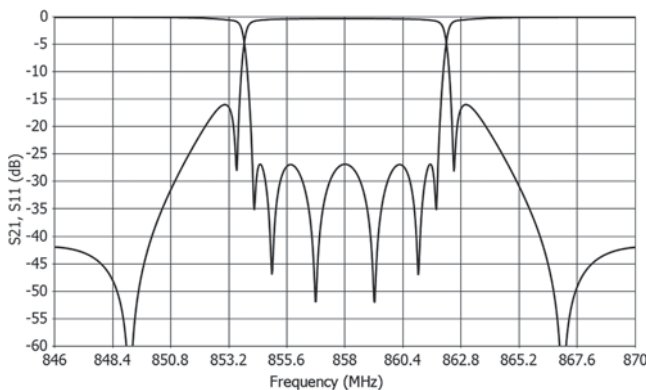
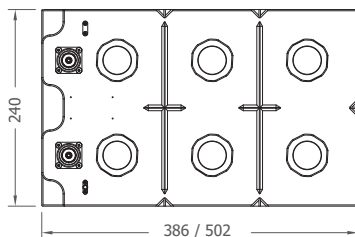
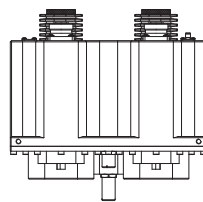
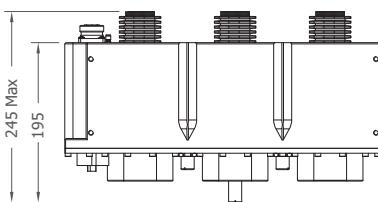
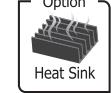
UHF 1 kW 6/8-Pole Bandpass Filter

FC6D110C

FC8D110C

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Advanced Television Systems Committee

ISDB



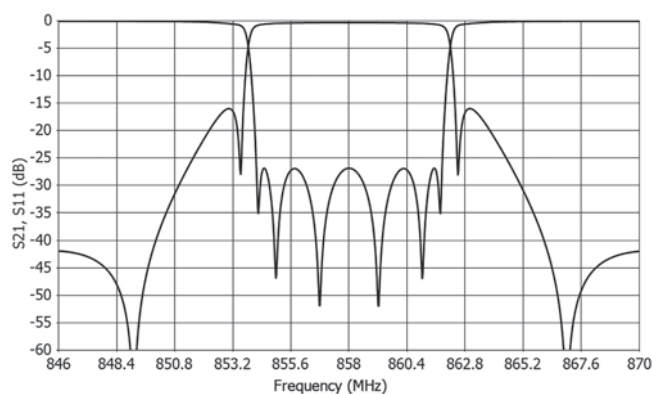
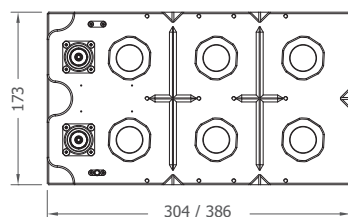
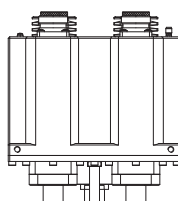
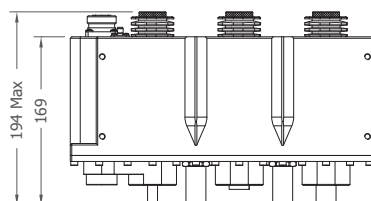
SPECIFICATIONS

	FC6D110C	FC8D110C
Product Code	A-FC6D110C-xx-yy	A-FC8D110C-xx-yy
Project Number	J-059-01	J-137-01
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	FCC Mask	FCC Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Ell. Resp.	8-Pole Ell. Resp.
Max Input Power	1 kW DTV (1.5 kW ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	386 x 240 x 245 mm	502 x 240 x 245 mm
Weight	13 kg (28.6 lb)	17.5 kg (38.5 lb)
Output Monitor Probe	SMA Female	
Connectors Interface	2 x 32mm Series	
Connectors	D-PC32E 7-16 Female (Default) D-PC32G EIA 7/8" FastLine Socket D-PC32H EIA 7/8" FastLine Flange D-PC32J EIA 1+5/8" FastLine Socket D-PC32K EIA 1+5/8" FastLine Flange	
Options	O-MR.01 SMB Output Monitor Probe O-MR.02 Output Monitor Probe on the left O-RK.07 6U 19" Rack, w/ handles O-HF.02 Heat Sink add-on	

TUNING DATA

	DVB 8 MHz N.C.M. (FC6D110C)	DVB 8 MHz C.M. (FC8D110C)	ATSC FCC M. (FC6D110C)
Insertion Loss	< 0.38 dB @ C.F. < 1.25 dB @ C.F. ± 3.8 MHz	< 0.52 dB @ C.F. < 1.90 dB @ C.F. ± 3.8 MHz	< 0.52 dB @ C.F. < 0.90 dB @ C.F. ± 2.7 MHz
Selectivity	> 5 dB @ C.F. ± 4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ± 4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ± 3.5 MHz > 29 dB @ C.F. ± 6 MHz > 63 dB @ C.F. ± 9 MHz
Harmonic Attenuation with LC39C	> 50 dB up to 1.1 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.1 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.1 GHz > 50 dB up to 3.0 GHz
Return Loss	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)
Group Delay Variation	< 250 ns	< 450 ns	< 150 ns
Over-Temperature with O-HF.02	< 28 K @ 1 kW DTV < 22 K @ 1 kW DTV	< 31 K @ 1 kW DTV < 25 K @ 1 kW DTV	< 32 K @ 1 kW DTV < 26 K @ 1 kW DTV

UHF 500 W 6/8-Pole Bandpass Filter

FC6D80C
FC8D80C

SPECIFICATIONS

	FC6D80C	FC8D80C
Product Code	A-FC6D80C-xx-yy	A-FC8D80C-xx-yy
Project Number	J-056-03	J-136-01
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	FCC Mask	FCC Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Ell. Resp.	8-Pole Ell. Resp.
Max Input Power	500 W DTV (750W ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	304 x 173 x 194 mm	386 x 173 x 194 mm
Weight	8.5 kg (18.7 lb)	11.5 kg (25.3 lb)
Output Monitor Probe	SMA Female	
Connectors Interface	2 x 32mm Series	
Connectors	D-PC32E 7-16 Female (Default) D-PC32G EIA 7/8" FastLine Socket D-PC32H EIA 7/8" FastLine Flange	
Options	O-MR.01 SMB Output Monitor Probe O-MR.02 Output Monitor Probe on the left O-RK.05 4U 19" Rack, w/ handles O-HF.01 Heat Sink add-on	

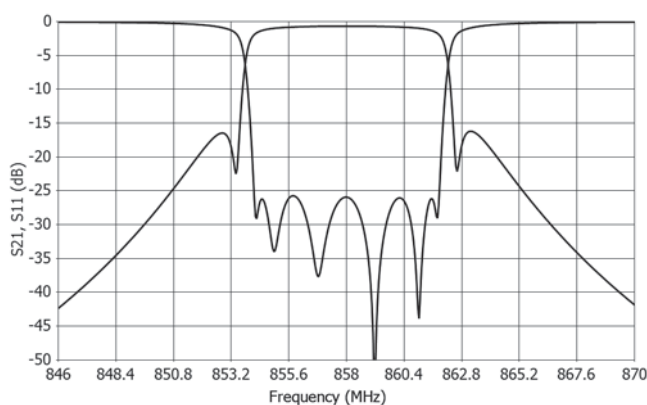
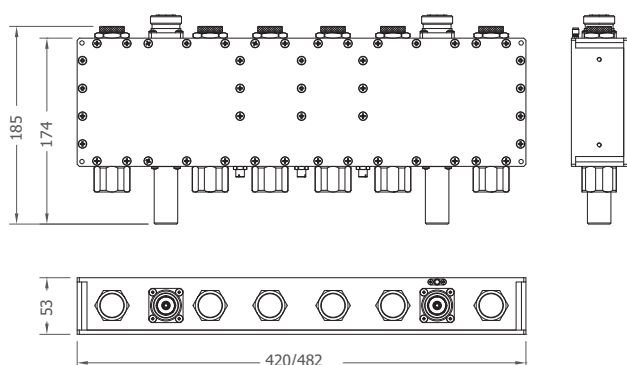
TUNING DATA

	DVB 8 MHz N.C.M. (FC6D80C)	DVB 8 MHz C.M. (FC8D80C)	ATSC FCC M. (FC6D80C)
Insertion Loss	< 0.46 dB @ C.F. < 1.60 dB @ C.F. ± 3.8 MHz	< 0.71 dB @ C.F. < 2.59 dB @ C.F. ± 3.8 MHz	< 0.72 dB @ C.F. < 1.22 dB @ C.F. ± 2.7 MHz
Selectivity	> 5 dB @ C.F. ± 4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ± 4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ± 3.5 MHz > 29 dB @ C.F. ± 6 MHz > 63 dB @ C.F. ± 9 MHz
Harmonic Attenuation with LC39C	> 50 dB up to 1.2 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.2 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.2 GHz > 50 dB up to 3.0 GHz
Return Loss	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)	> 26 dB (VSWR < 1.11)
Group Delay Variation	< 250 ns	< 450 ns	< 150 ns
Over-Temperature with O-HF.01	< 24 K @ 500 W DTV < 19 K @ 500 W DTV	< 27 K @ 500 W DTV < 22 K @ 500 W DTV	< 27 K @ 500 W DTV < 22 K @ 500 W DTV

UHF 250 W 6/7-Pole Bandpass Filter

CL6X50C
CL7X50C

ISDB



SPECIFICATIONS

	CL6X50C	CL7X50C
Product Code	A-CL6X50C-xx-yy	A-CL7X50C-xx-yy
Project Number	J-088-02	J-114-01
DVB Mask	Non Critical Mask	Critical Mask
ATSC Mask	Simple Mask	Stringent Mask
ISDB Mask	Non Critical Mask	Critical Mask
Frequency Range	470 – 862 MHz	
Bandwidth	6 to 8 MHz	
Order	6-Pole Elliptical Response	7-Pole Elliptical Response
Max Input Power	250 W DTV (375 W ATV)	
Temperature Stability	< 2 kHz / K	
Max Operating Temp.	70 °C (158 °F)	
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60	
Body Finish	Metallic black coloring	
Dimensions	420 x 53 x 185 mm	482 x 53 x 185 mm
Weight	3.5 kg (7.7 lb)	4.1 kg (9 lb)
Output Monitor Probe	SMA Female	
Connectors Interface	2 x 32mm Series	
Connectors	D-PC32C N Female D-PC32E 7-16 Female (Default)	
Options	O-MR.01 SMB Output Monitor Probe O-RK.03 2U 19" Rack, w/ handles	

TUNING DATA

	DVB 8 MHz N.C.M. (CL6X50C)	DVB 8 MHz C.M. (CL7X50C)	ATSC Simple M. (CL6X50C)
Insertion Loss	< 0.75 dB @ C.F. < 2.00 dB @ C.F. ± 3.8 MHz	< 1.00 dB @ C.F. < 3.60 dB @ C.F. ± 3.8 MHz	< 0.90 dB @ C.F. < 1.50 dB @ C.F. ± 2.7 MHz
Selectivity	> 5 dB @ C.F. ± 4.2 MHz > 16 dB @ C.F. ± 6 MHz > 41 dB @ C.F. ± 12 MHz	> 15 dB @ C.F. ± 4.2 MHz > 26 dB @ C.F. ± 6 MHz > 51 dB @ C.F. ± 12 MHz	> 10 dB @ C.F. ± 3.5 MHz > 24 dB @ C.F. ± 6 MHz > 36 dB @ C.F. ± 9 MHz
Harmonic Attenuation with LC39C	> 50 dB up to 1.4 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.4 GHz > 50 dB up to 3.0 GHz	> 50 dB up to 1.4 GHz > 50 dB up to 3.0 GHz
Return Loss	> 24 dB (VSWR < 1.13)	> 22 dB (VSWR < 1.17)*	> 24 dB (VSWR < 1.13)
Group Delay Variation	< 200 ns	< 350 ns	< 150 ns
Over-Temperature	< 30 K @ 250 W DTV	< 34 K @ 250 W DTV	< 34 K @ 250 W DTV

*Within C.F. ± 3.7 MHz