

Amphenol Broadband Solutions now offers our new **1.8 GHz Series Face Plate** for future DOCSIS 4.0 networks. These face plates are a field upgradable solution to bandwidth expansion by simply replacing the tap plate instead of the entire tap. This face plate is designed specifically to fit Regal® wide body style housings in today networks.

White face plates signify compatibility with certain Regal style housings and specifically designed for optimum performance in our white wide body back case.

Features & Benefits:

- Face Plate 2, 4, 8 dB Output
- Retrofit Legacy Taps to 1.8 GHz
- Installation Flexibility
- Full range of Values (4 dB - 29 dB)



ALT18229RFPW



ALT18420RFPW



ALT18826RFP

Specifications

Parameter	Frequency MHz	ALT18204RFWT	ALT18208RFWP	ALT18211RFWP	ALT18214RFWP	ALT18217RFWP	ALT18220RFWP	ALT18223RFWP	ALT18226RFWP	ALT18229RFWP	ALT18RFWH
TYPICAL											(Back Case)
"Insertion Loss – In/Out in dB: Typical ± Tolerance"	5	NA	3.8±0.5	3.0±0.5	2.2±0.5	1.2±0.5	1.2±0.5	1.0±0.5	1.0±0.5	1.0±0.5	
	10	NA	3.8±0.5	3.0±0.5	2.2±0.5	1.2±0.5	1.2±0.5	1.0±0.5	1.0±0.5	1.0±0.5	
	42	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	1.0±0.5	
	258	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	1.0±0.5	
	550	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	1.0±0.5	
	750	NA	4.5±0.5	3.5±0.5	2.4±0.5	1.8±0.5	1.8±0.5	1.5±0.5	1.5±0.5	1.5±0.5	
	1002	NA	4.5±0.5	3.5±0.5	2.4±0.5	1.8±0.5	1.8±0.5	1.5±0.5	1.5±0.5	1.5±0.5	
	1218	NA	4.6±0.5	4.0±0.5	2.6±0.5	2.4±0.5	2.4±0.5	2.0±0.5	2.0±0.5	2.0±0.5	
	1400	NA	4.8±0.5	4.4±0.5	3.2±0.5	2.8±0.5	2.8±0.5	2.3±0.5	2.3±0.5	2.3±0.5	
	1600	NA	4.8±0.5	4.4±0.5	3.2±0.5	2.8±0.5	2.8±0.5	2.3±0.5	2.3±0.5	2.3±0.5	
	1800	NA	5.5±0.5	4.8±0.5	4.0±0.5	3.4±0.5	3.4±0.5	2.8±0.5	2.8±0.5	2.8±0.5	
"Insertion Loss – In/Tap in dB: Typical ± Tolerance"	5	3.8±1.0	7.0±1.0	11.0±1.0	14.0±1.0	17.0±1.0	19.5±1.0	21.0±1.0	24.0±1.0	27.0±1.0	
	10	3.8±1.0	7.0±1.0	11.0±1.0	14.0±1.0	17.0±1.0	19.5±1.0	21.0±1.0	24.0±1.0	27.0±1.0	
	42	3.8±1.0	7.0±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	258	4.0±1.0	7.2±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	550	4.0±1.0	7.2±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	750	4.2±1.0	7.4±1.0	11.0±1.0	14.5±1.0	18.0±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	1002	4.2±1.2	7.4±1.2	11.0±1.2	14.5±1.2	18.0±1.2	20.5±1.2	23.0±1.2	26.0±1.2	29.0±1.2	
	1218	4.5±1.5	7.6±1.5	11.5±1.5	15.5±1.5	18.2±1.5	21.0±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1400	5.2±1.5	8.5±1.5	13.0±1.5	16.0±1.5	18.5±1.5	21.5±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1600	5.2±1.5	8.5±1.5	13.0±1.5	16.0±1.5	18.5±1.5	21.5±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1800	5.5±1.5	9.6±1.5	13.5±1.5	16.5±1.5	19.0±1.5	22.0±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
MINIMUM											
"Return Loss – Input, Output in dB: Minimum"	5–9	15	14	14	15	15	15	15	15	15	
	10–700	16	16	16	16	16	16	16	16	16	
	701–1794	13	13	13	13	13	13	13	13	13	
"Return Loss – Tap in dB: Minimum"	5–9	14	11	11	14	14	14	14	14	14	
	10–1218	16	16	16	16	16	16	16	16	16	
	1219–1794	15	15	15	15	15	15	15	15	15	
"Isolation (Tap-Tap, Out-Tap) in dB: Minimum"	5–10	18	15	15	18	18	18	18	18	18	
	11–1002	22	22	22	22	22	22	22	22	22	
	1003–1218	22	22	22	22	22	22	22	22	22	
	1219–1794	20	20	20	20	20	20	20	20	20	

Specifications

Parameter	Frequency MHz	ALT18408RFTW	ALT18411RFPW	ALT18414RFPW	ALT18417RFPW	ALT18420RFPW	ALT18423RFPW	ALT18426RFPW	ALT18429RFPW	ALT18RFTWH
TYPICAL (Back Case)										
"Insertion Loss – In/Out in dB: Typical ± Tolerance"	5	NA	3.8±0.5	3.0±0.5	2.2±0.5	1.2±0.5	1.2±0.5	1.0±0.5	1.0±0.5	
	10	NA	3.8±0.5	3.0±0.5	2.2±0.5	1.2±0.5	1.2±0.5	1.0±0.5	1.0±0.5	
	42	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	
	258	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	
	550	NA	4.0±0.5	3.1±0.5	2.2±0.5	1.4±0.5	1.4±0.5	1.0±0.5	1.0±0.5	
	750	NA	4.5±0.5	3.5±0.5	2.4±0.5	1.8±0.5	1.8±0.5	1.5±0.5	1.5±0.5	
	1002	NA	4.5±0.5	3.5±0.5	2.4±0.5	1.8±0.5	1.8±0.5	1.5±0.5	1.5±0.5	
	1218	NA	4.6±0.5	4.0±0.5	2.6±0.5	2.4±0.5	2.4±0.5	2.0±0.5	2.0±0.5	
	1400	NA	4.8±0.5	4.4±0.5	3.2±0.5	2.8±0.5	2.8±0.5	2.3±0.5	2.3±0.5	
	1600	NA	4.8±0.5	4.4±0.5	3.2±0.5	2.8±0.5	2.8±0.5	2.3±0.5	2.3±0.5	
	1800	NA	5.5±0.5	4.8±0.5	4.0±0.5	3.4±0.5	3.4±0.5	2.8±0.5	2.8±0.5	
"Insertion Loss – In/Tap in dB: Typical ± Tolerance"	5	7.0±1.0	11.0±1.0	14.0±1.0	17.0±1.0	19.5±1.0	21.0±1.0	24.0±1.0	27.0±1.0	
	10	7.0±1.0	11.0±1.0	14.0±1.0	17.0±1.0	19.5±1.0	21.0±1.0	24.0±1.0	27.0±1.0	
	42	7.0±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	258	7.2±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	550	7.2±1.0	11.0±1.0	14.0±1.0	17.5±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	750	7.4±1.0	11.0±1.0	14.5±1.0	18.0±1.0	20.5±1.0	23.0±1.0	26.0±1.0	29.0±1.0	
	1002	7.4±1.2	11.0±1.2	14.5±1.2	18.0±1.2	20.5±1.2	23.0±1.2	26.0±1.2	29.0±1.2	
	1218	7.6±1.5	11.5±1.5	15.5±1.5	18.2±1.5	21.0±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1400	8.5±1.5	13.0±1.5	16.0±1.5	18.5±1.5	21.5±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1600	8.5±1.5	13.0±1.5	16.0±1.5	18.5±1.5	21.5±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
	1800	9.6±1.5	13.5±1.5	16.5±1.5	19.0±1.5	22.0±1.5	23.0±1.5	26.0±1.5	29.0±1.5	
MINIMUM										
"Return Loss – Input, Output in dB: Minimum"	5–9	15	14	15	15	15	15	15	15	
	10–700	16	16	16	16	16	16	16	16	
	701–1794	13	13	13	13	13	13	13	13	
"Return Loss – Tap in dB: Minimum"	5–9	12	12	14	14	14	14	14	14	
	10–1218	16	16	16	16	16	16	16	16	
	1219–1794	15	15	15	15	15	15	15	15	
"Isolation (Tap-Tap, Out-Tap) in dB: Minimum"	5–10	15	16	18	18	18	18	18	18	
	11–1002	22	22	22	22	22	22	22	22	
	1003–1218	22	22	22	22	22	22	22	22	
	1219–1794	20	20	20	20	20	20	20	20	

Specifications

Parameter	Frequency MHz	ALT18811RFTW	ALT18814RFPW	ALT18817RFPW	ALT18820RFPW	ALT18823RFPW	ALT18826RFPW	ALT18829RFPW	ALT188RFPWH
TYPICAL									
(Back Case)									
"Insertion Loss – In/Out in dB: Typical ± Tolerance"	5	NA	3.8±0.5	3.0±0.5	2.9±0.5	1.2±0.5	1.5±0.5	1.0±0.5	
	10	NA	3.8±0.5	3.0±0.5	2.0±0.5	1.2±0.5	0.9±0.5	1.0±0.5	
	42	NA	4.0±0.5	3.1±0.5	1.8±0.5	1.4±0.5	0.7±0.5	1.0±0.5	
	258	NA	4.0±0.5	3.1±0.5	1.9±0.5	1.4±0.5	0.8±0.5	1.0±0.5	
	550	NA	4.0±0.5	3.1±0.5	2.7±0.5	1.4±0.5	1.6±0.5	1.0±0.5	
	750	NA	4.5±0.5	3.5±0.5	3.1±0.5	1.8±0.5	2.0±0.5	1.5±0.5	
	1002	NA	4.5±0.5	3.5±0.5	3.1±0.5	1.8±0.5	2.0±0.5	1.5±0.5	
	1218	NA	4.6±0.5	4.0±0.5	3.4±0.5	2.4±0.5	2.1±0.5	2.0±0.5	
	1400	NA	4.8±0.5	4.4±0.5	3.9±0.5	2.8±0.5	2.5±0.5	2.3±0.5	
	1600	NA	4.8±0.5	4.4±0.5	4.0±0.5	2.8±0.5	2.6±0.5	2.3±0.5	
	1800	NA	5.5±0.5	4.8±0.5	4.7±0.5	3.4±0.5	3.5±0.5	2.8±0.5	
"Insertion Loss – In/Tap in dB: Typical ± Tolerance"	5	10.9±1.0	14.0±1.0	17.0±1.0	19.2±1.0	21.0±1.0	24.0±1.0	27.0±1.0	
	10	10.6±1.0	14.0±1.0	17.0±1.0	19.9±1.0	21.0±1.0	26.1±1.0	27.0±1.0	
	42	10.2±1.0	14.0±1.0	17.5±1.0	19.6±1.0	23.0±1.0	25.8±1.0	29.0±1.0	
	258	10.2±1.0	14.0±1.0	17.5±1.0	19.6±1.0	23.0±1.0	25.8±1.0	29.0±1.0	
	550	10.4±1.0	14.0±1.0	17.5±1.0	19.9±1.0	23.0±1.0	26.2±1.0	29.0±1.0	
	750	10.6±1.0	14.5±1.0	18.0±1.0	20.4±1.0	24.0±1.0	26.3±1.0	29.5±1.0	
	1002	11.0±1.2	14.5±1.2	18.0±1.2	20.4±1.2	24.0±1.2	26.3±1.2	29.5±1.2	
	1218	11.4±1.5	15.5±1.5	18.0±1.5	20.6±1.5	24.3±1.5	25.8±1.5	29.5±1.5	
	1400	11.9±1.5	16.5±1.5	19.0±1.5	21.0±1.5	25.0±1.5	25.8±1.5	30.0±1.5	
	1600	12.7±1.5	16.5±1.5	19.0±1.5	22.1±1.5	25.0±1.5	26.8±1.5	30.0±1.5	
	1800	13.8±1.5	17.0±1.5	19.5±1.5	22.6±1.5	25.0±1.5	27.1±1.5	30.5±1.5	
MINIMUM									
"Return Loss – Input, Output in dB: Minimum"	5–9	15	14	15	15	15	15	15	
	10–700	16	16	16	16	16	16	16	
	701–1794	13	13	13	13	13	13	13	
"Return Loss – Tap in dB: Minimum"	5–9	14	13	14	13	14	13	14	
	10–1218	16	16	16	16	16	16	16	
	1219–1794	15	15	15	15	15	15	15	
"Isolation (Tap-Tap, Out-Tap) in dB: Minimum"	5–10	18	16	18	18	18	18	18	
	11–1002	22	22	22	22	22	22	22	
	1003–1218	22	22	22	22	22	22	22	
	1219–1794	20	20	20	20	20	20	20	

General Information:

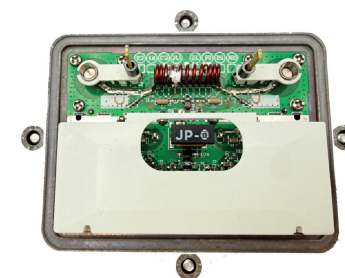
1.8 GHz Broadband Regal Wide Body 2-Output & 4-Output Face Plate - White Series		
RFI	5-1002	120dB
	1003-1218	110dB
	1219-1794	100dB
HUM @ 10A	15-1218	≥65dB
	1219-1794	≥60dB
Current Passing Capacity		90VAC/15A
Surge Withstand Capacity		IEEE C62.41-1991-Cat B3, Combination Wave, 6KV, 3KA
Operating Temperature		-40°C ~ +60°C
Water Proof Test		15psi, IP67
Impedance		75ohm

1.8 GHz Broadband Regal Wide Body 8-Output - White Series		
RFI	5-1002	120dB
	1003-1218	110dB
	1219-1794	100dB
HUM	15-1218	≥65dB @ 10A, ≥60dB @ 15A
	1219-1794	≥60dB @ 10A, ≥55dB @ 15A
Current Passing Capacity		90VAC/15A
Surge Withstand Capacity		IEEE C62.41-1991-Cat B3, Combination Wave, 6KV, 3KA
Operating Temperature		-40°C ~ +60°C
Water Proof Test		15psi, IP67
Impedance		75ohm

- Tested under lab conditions with 36 mm pin length F adaptors at the KS port
- ATL18XXX series white face plates optimum performance is achieved only when deployed with vintage back cases called out in this tech note

Tap faceplates support plug in accessories for equalization, cable simulation and upstream attenuation.

Plug Ins Available	
JP-0	Jumper
ATTN-03	3 dB Attenuator
ATTN-06	6 dB Attenuator
ATTN-09	9 dB Attenuator
EQ-03	3 dB Equalizer
EQ-06	6 dB Equalizer
EQ-09	9 dB Equalizer



Installation:

Please pay special attention to those vintage housings with bypass that do not comply to the electrical and mechanical specifications of this face plate.

Removal and Installation procedure of this tap plate should be followed. Refer to customer recommended practice regarding changing out entire tap.

Always remove existing drop connections prior to removing tap faceplate and in accordance with your company guidelines. Failure to do so could result in drop damage.

Step 1



Using a 5/16" nut driver loosen faceplate screw

Step 2



Remove old faceplate by pulling on screws

Step 3



Inspect housing for any water damage. Verify RFI gasket and rubber seal are in place

Step 4



Carefully remove clear plastic insert from housing with pliers

Step 5



Place new faceplate on housing and apply pressure evenly to seat into place

Step 6



Using a 5/16" nut driver tighten set screws to proper torques (30 in/lb)

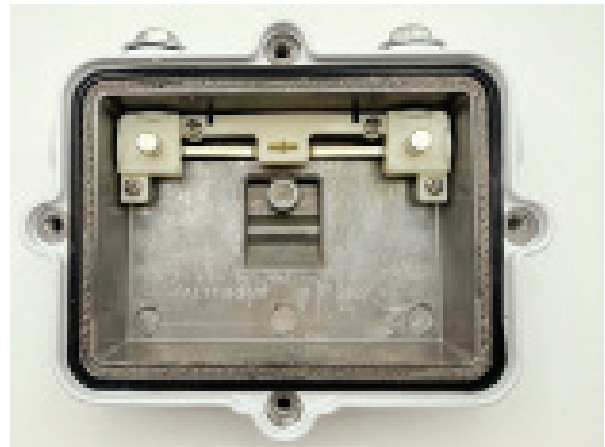
Reconnect drops to new tap faceplate in accordance with your company installation policy.

If its determined the exhisiting housing is damaged and requires replacement refer to customer recommended practice regarding changing out entire tap.

The ALT18RFWH white series back housing is optimized to 1.8 GHz and designed to receive the white series face plates. Please note the recomended KS connecotor pin length shall be 36mm for optimum performance. . (See trim notch on housing)



ALT18RFWH



36mm Trim Notch for Optimum
Performance to 1.8 GHz