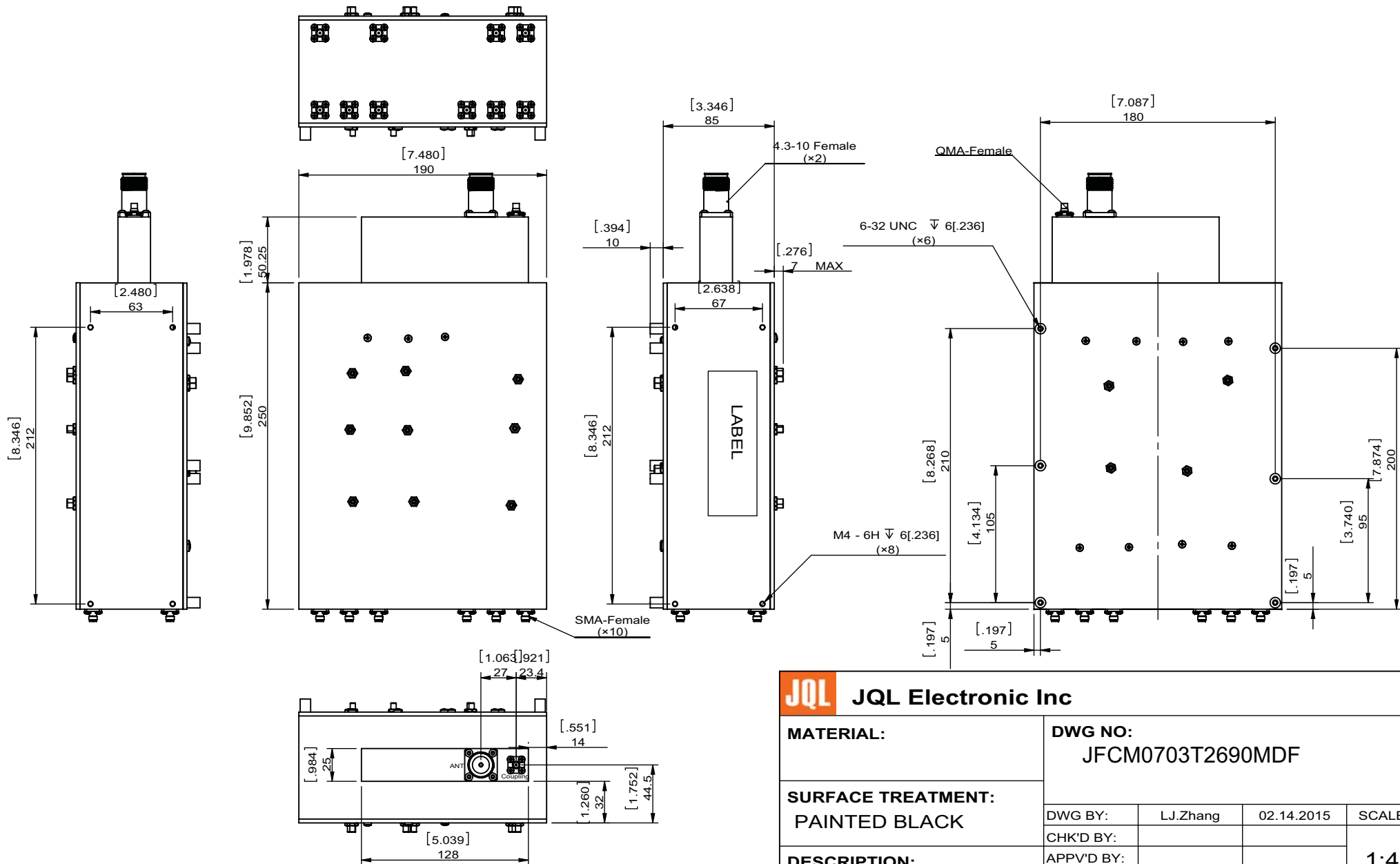


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JQL JQL Electronic Inc				
MATERIAL:		DWG NO: JFCM0703T2690MDF		
SURFACE TREATMENT: PAINTED BLACK		DWG BY:	LJ.Zhang	02.14.2015
DESCRIPTION: MULTIPLEXERS		CHK'D BY:		SCALE
		APPV'D BY:		1:4
Unit: mm[inch]		Tolerance: Liner: ±0.25 Anguar: ±0.5°	The First: 	
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Document No.	QR4-700-T-003	REV.	A/0	REV.	0	DESCRIPTION		REVISOR	LJ.Zhang	DATE	02.14.2015	APPROVED	David

APT700


ITEM	SPECIFICATION		REMARK
	UL	DL	
Frequency(MHz)	703~748	758~803	
Insertion Loss(dB)	2 Max	1.5 Max	
Return Loss(dB)@all ports	20 Min	19 Min	
Ripple(dB)@P-P	1.0 Max	1.0 Max	
Attenuation(dB)	100 Min@758~803 MHz 80 Min@824~2700 MHz	100 Min@703~748 MHz 100 Min@824~849 MHz 80 Min@849~2700 MHz	
nd 2 Harmonic Attenuation(dB)	NA	110 Min@1516~1606 MHz	
Isolation(dB):Port to Port DL to UL(In band)	100 Min@758~803 MHz 100 Min@703~748 MHz 90 Min@758~803 MHz 90 Min@703~748 MHz		Antenna Port Terminated 50Ω
	95Min@748~758 MHz		Antenna Port Terminated 50Ω
Isolation(dB):Port to Port DL to UL(Crossover)	80 Min@748~758 MHz		Antenna Port Open
Isolation(dB):Port to Port DL APT to UL CELL(Crossover)	95 Min@803~824MHz		Antenna Port Terminated 50Ω
	80 Min@ 803~824 MHz		Antenna Port Open

PCS+G Block

ITEM	SPECIFICATION		REMARK
	UL	DL	
Frequency(MHz)	1850~1915	1930~1995	
Insertion Loss(dB)	3.0Max	2.2 Max	
Return Loss(dB)@all ports	19 Min	19 Min	
Ripple(dB)@P-P	1.6 Max	1.3 Max	
Group Delay Variation in any 5MHz(nSec)	55	55	
Attenuation(dB)	100 Min@700~1760 MHz 100 Min@1930~1995 MHz 100 Min@2000~2700 MHz	100 Min@700~1760 MHz 110 Min@1850~1915 MHz 90 Min@2060~2700 MHz	
Isolation(dB):Port to Port DL to UL(In band)	110 Min @1850~1915 MHz 100 Min@1930~1995 MHz		Antenna Port 50Ω Terminated
	100 Min @1850~1915 MHz 90 Min@1930~1995 MHz		Antenna Port Open
Isolation(dB):Port to Port DL to UL(Crossover)	95 Min@1915~1930MHz		Antenna Port 50Ω Terminated
	85 Min@1915~1930MHz		Antenna Port Open
Isolation(dB) : Port to Port AWS DL to PCS UL (In Band)	110 Min@1850~1915 MHz 110 Min@2110~2155 MHz		Antenna port 50Ω Terminated&Open
Isolation(dB) : Port to Port AWS DL to PCS UL (Crossover)	85 Min@1915~2110 MHz 85 Min@2155~2305 MHz		Antenna port 50Ω Terminated&Open

CELL800

ITEM	SPECIFICATION		REMARK
	UL	DL	
Frequency(MHz)	824~849	869~894	
Insertion Loss(dB)	1.0 Max	1.0 Max	
Return Loss(dB)@all ports	20 Min	19 Min	
Ripple(dB)@P-P	1 Max	1 Max	
Group Delay Variation in any 5MHz(nSec)	40 Max	40 Max	
Attenuation(dB)	80 Min@700~803 MHz 100 Min@869~894 MHz 100 Min@900~2700 MHz	100 Min@700~800 MHz 100 Min@824~849 MHz 100 Min@950~2700 MHz	
nd 2 Harmonic Attenuation(dB)	NA	110 Min@1724~1788 MHz	
Isolation(dB):Port to Port DL to UL(In band)	100 Min @824~849 MHz 100 Min@869~894 MHz		Antenna Port 50Ω Terminated
	90 Min@824~849 MHz 90 Min@869~894 MHz		Antenna Port Open
Isolation(dB):Port to Port DL to UL(Crossover)	90Min@849~869 MHz		Antenna Port 50Ω Terminated
	85 Min@849~869 MHz		Antenna Port Open

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		APPV'D BY:		3:1
Unit: mm[inch]		Tolerance: Liner: ±0.25 Anguar: ±0.5°	The First:	
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REV.		A/0		0				LJ.Zhang		02.14.2015	
										APPROVED	
										David	

ITEM	SPECIFICATION		REMARK
	UL	DL	
Frequency(MHz)	1710~1755	2110~2155	
Insertion Loss(dB)	1.8 Max	1.1 Max	
Return Loss(dB)	20 Min	19 Min	
Ripple(dB)@P-P	0.5 Max		
Group Delay Variation in any 5MHz(nSec)	55	55	
Attenuation(dB)	110 Min@700~1500 MHz 110 Min@1930~2000 MHz 110 Min@2110~2155 MHz 110 Min@2300~2700 MHz	110 Min@700~1500 MHz 110 Min@1710~1755 MHz 110 Min@1850~1915 MHz 110 Min@2300~2700 MHz	
Isolation(dB):Port to Port DL to UL(In band)	110 Min@1710~1755 MHz 110 Min@2110~2155 MHz		Antenna Port 50ΩTerminated & Open
Isolation(dB):Port to Port DL to UL(Crossover)	110 Min@1755~2110 MHz		Antenna Port 50ΩTerminated
	110 Min@1755~2110 MHz		Antenna Port Open

LTE-2600

ITEM	SPECIFICATION		REMARK
	UL	DL	
Frequency(MHz)	2500~2570	2620~2690	
Insertion Loss(dB)	1.0 Max	1.0 Max	
Return Loss(dB)	20 Min	19 Min	
Ripple(dB)@P-P	0.5 Max		
Attenuation(dB)	110 Min@700~2170 MHz 110 Min@2620~2690 MHz	110 Min@700~2170 MHz 110 Min@2500~2570MHz	
Isolation(dB):Port to Port DL to UL (In band)	110 Min@2500~2570 MHz 100 Min@2620~2690 MHz		Antenna Port 50ΩTerminated
Isolation(dB):Port to Port DL to UL (In band)	100 Min@2500~2570 MHz 90 Min@2620~2690 MHz		Antenna Port Open
Isolation(dB):Port to Port DL to UL(Crossover)	100 Min@2570~2620 MHz		Antenna Port 50ΩTerminated
	90 Min@2570~2620 Mhz		Antenna Port Open

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REV.	A/0					0		LJ.Zhang	02.14.2015	David	

A

General Electrical Specifications

ITEM	SPECIFICATION	REMARK
Power(w)	50@ CW	
In/Out Impedance(Ω)	50	
Rejection at Second Harmonic(dB)	110 Min	
Attenuation(dB)	70 Min@DC~650 MHz 60 Min@2800~6000 MHz	
ANT Port Coupler(dB)	40 \pm 3.5@Ripple=2dB Max p-p; Return Loss=15 dB Min	QMA Connector
PIM(dBc): 43dBm per Tone	150 Min	
Operation Temperature($^{\circ}$ C)	-40~+85	

B

C

D

Mechanical Specifications

ITEM	SPECIFICATION	REMARK
Weight(kg)	6kg Max	
In/Out Connector	SMA-Female	
ANT Port Connector	4.3-10 Female	
ANT port Coupler connector	QMA-Female	

A

B

C

D

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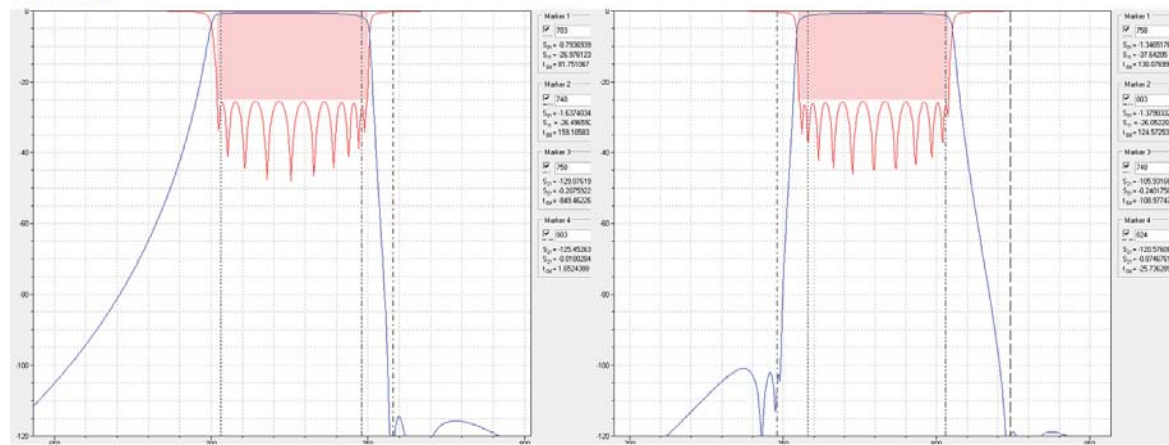
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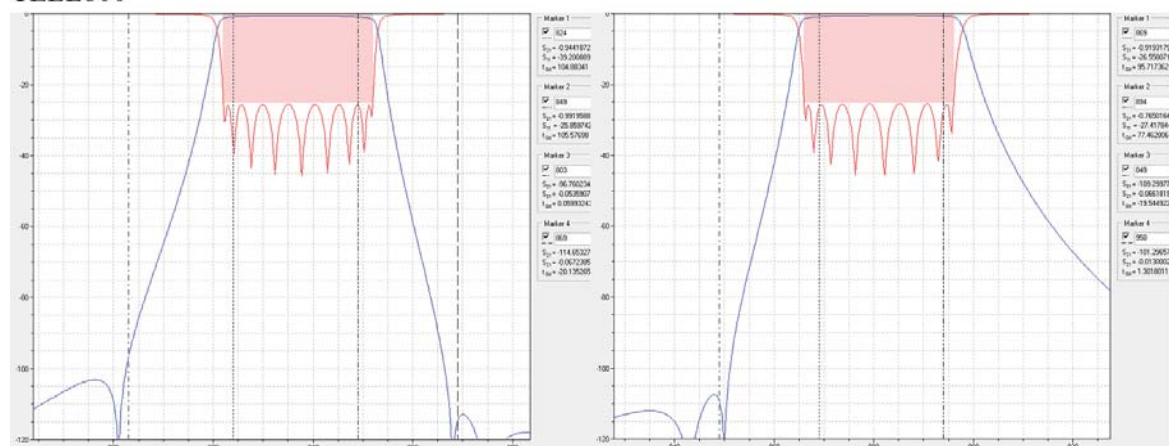
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REV. A/0								0		LJ.Zhang	02.14.2015	David

APT700



CELL800



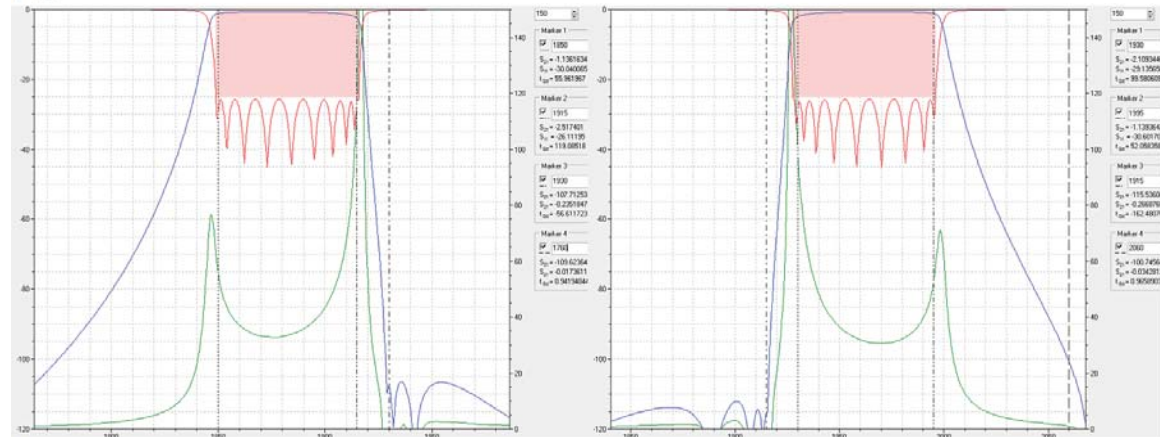
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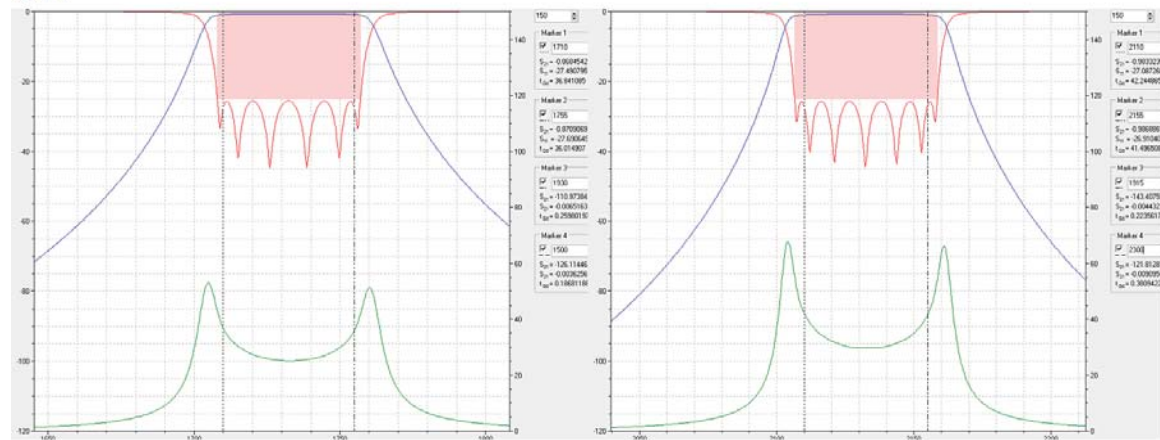
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PCS



AWS



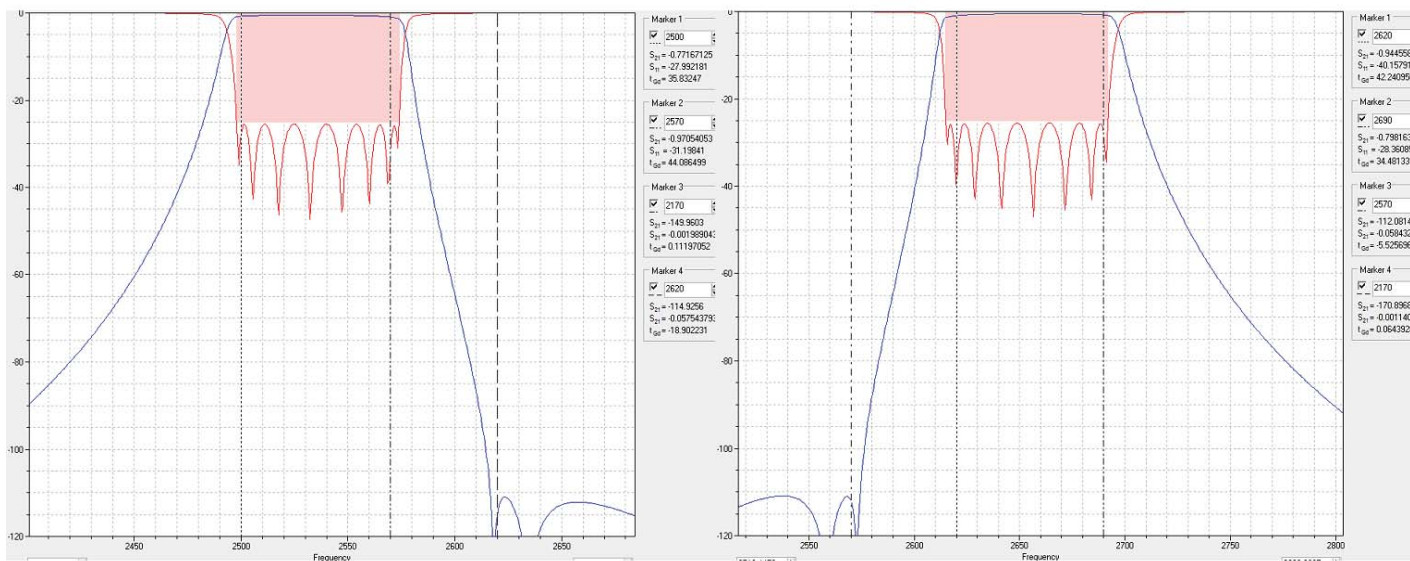
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LTE-2600



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