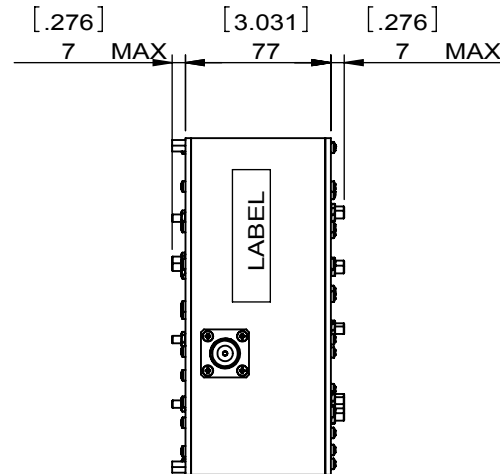
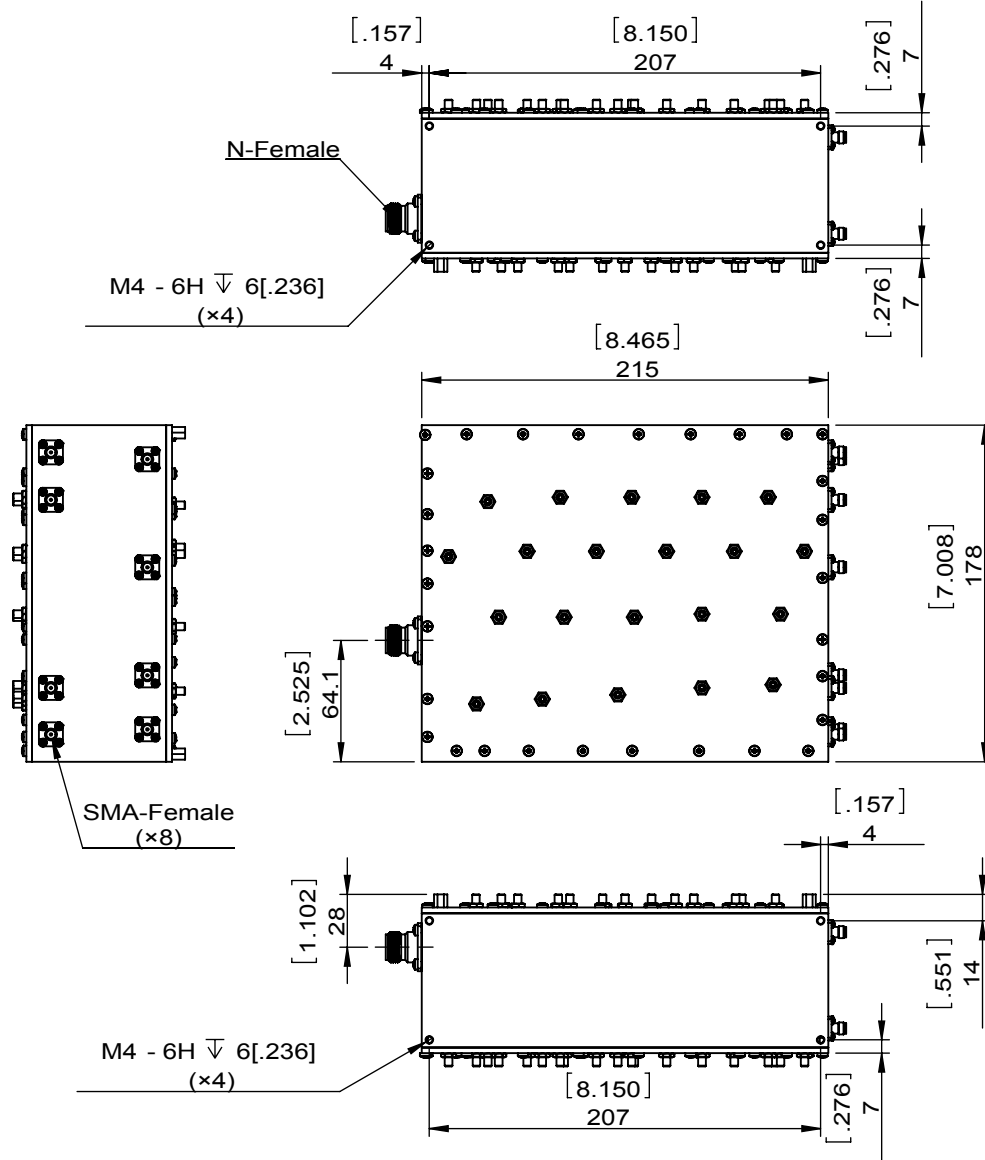





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Document No.	QR4-700-T-003	REV.	A/0	REV.	DESCRIPTION	REVISOR	DATE	APPROVED			
		0		LJ.Zhang	01.26.2015	David					



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<b>JQL</b> JQL Electronic Inc				
<b>MATERIAL:</b> -		<b>DWG NO:</b> JFCQ0791T2690NF		
<b>SURFACE TREATMENT:</b> SLIVER PLATED		DWG BY:	LJ.Zhang	01.26.2015
<b>DESCRIPTION:</b> DUPLEXER		CHK'D BY:		SCALE
		APPV'D BY:		1:4
Unit: mm[inch]		Tolerance: Liner: $\pm 0.25$ Anguar: $\pm 0.5^\circ$	The First: 	
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Document No.	QR4-700-T-003					REV.	0	DESCRIPTION		REVISOR	LJ.Zhang	DATE	01.26.2015	APPROVED	David
REV.	A/0														
A	ITEM	EGSM 900		UMT S2100		LTE 2600		LTE 800		Remarks					
	Frequency(MHz)	880~915	925~960	1920~1980	2110~2170	2500~2570	2620~2690	832~862	791~821						
	Insertion Loss(dB)	1.5 Max		1.5 Max		1.5 Max		1.5 Max							
	Ripple(dB)p-p	1 Max		1 Max		1 Max		1 Max							
	Return Loss(dB)	18 Min		18 Min		18 Min		18 Min							
	Power Handing(W)	10 (40dBm)		10 (40dBm)		10 (40dBm)		10 (40dBm)		Average Composite Power					
	Peak Power(AVG Power +10dB)	100(50dBm)		100(50dBm)		100(50dBm)		100(50dBm)		Open/Short					
Group Delay(nSec)	110 Max		80 Max		80 max		110 Max								
B	Group Delay Variation(nSec)	60 Max all band and 40Max for any 4MHz continuing band		40 Max all band and 25 Max for any4MHz continuing band		40 Max all band and 25 Max for any4MHz continuing band		60 Max all band and 40 Max for any4MHz continuing band							
	Isolation (dB) between all ports	90 Min		90 Min		90 Min		90 Min		Open/short/Loaded ant port					
	Crossover Isolation(dB) from /to all ports	40 Min													
	In/Out Impedance(Ω)	50													
	PIMD(dBm)	120 Min@2*37dBm		120 Min@2*37dBm		120 Min@2*37dBm		120 Min@2*37dBm							
C	Temperature(°C)	-20~+85(Operating);-40~+85(Storage)													
	Attenuation at Frequencies. From Ant Port to UL/DL Ports	Frequency(MHz)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)				
		DC~750	80	80	90	90	85	85	80	80					
		750~791	80	80	90	90	85	85	85	80					
		791~821 (LTE800 reject DL to UL)	90	90	90	90	90	90	90	-					
		821~832	90	90	90	90	90	90	-	-					
		@826.5(CBA)	-	-	-	-	-	-	-	10					
		832~862 (LTE800 reject UL to DL)	90	90	90	90	90	90	-	90					
		862~866	40	80	90	90	90	90	-	85					
		866~876	4	80	90	90	90	90	40	90					
		876~880(TERA)	-	90	90	90	90	90	90	90					
		880~915 (EGSM-reject UL to DL)	-	90	90	90	90	90	90	90					
915~925	-	-	90	90	90	90	90	90							
@920(CBA)	4	3	-	-	-	-	-	-							
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							MATERIAL: -		DWG NO: JFCCQ0791T2690NF						
							SURFACE TREATMENT: SLIVER PLATED		DWG BY:	LJ.Zhang	01.26.2015	SCALE			
							DESCRIPTION: DUPLXER		CHK'D BY:			1:4			
									APPV'D BY:						
		Unit: mm[inch]	Tolerance: Liner: ±0.25 Anguar: ±0.5°	The First:		A4									
1	2	3	WEIGHT:	5	SHEET 2 OF 4										

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Document No.	QR4-700-T-003					REV.	0	DESCRIPTION		REVISOR	LJ.Zhang	DATE	01.26.2015	APPROVED	David
REV.	A/0	EGSM 900		UMT S2100		LTE 2600		LTE 800		Remarks					
ITEM	Frequency(MHz)	880~915	925~960	1920~1980	2110~2170	2500~2570	2620~2690	832~862	791~821						
	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)						
A	925~960 (EGSM Reject DL to UL)	85	-	90	90	90	90	90	90						
	960~1050	85	-	90	90	90	90	90	90						
	@980	-	45	90	90	-	-	-	-						
	1050~1690 (GPS,1227,1575)	90	90	90	90	90	90	90	90						
	1690~1710	90	90	90	90	90	90	90	90						
	@1705	-	-	90	90	-	-	-	-						
	1710~1785 (DCS-Reject UL to DL)	90	90	90	90	90	90	90	90						
	1785~1805	90	90	90	90	90	90	90	90						
	@1790	90	90	90	90	90	90	90	90						
	@1795(CBA)	90	90	90	90	90	90	90	90	90					
B	@1800	90	90	90	90	90	90	90	90						
	1805~1880 (DCS- Reject DL to UL)	90	90	90	90	90	90	90	90						
	1880~1920	90	90	90	-	90	90	90	90						
	@1885	90	90	90	90	90	90	90	90						
	1920~1980 (UMTS Reject UL to DL)	90	90	-	90	90	90	90	90						
	1980~2110	90	90	-	-	90	90	90	90						
	@2045(CBA)	90	90	90	90	90	90	90	90						
	2110~2170 (UMTS Reject DL to UL)	90	90	90	-	90	90	90	90						
	2170~2300	90	90	90	20	90	90	90	90						
	2300~2480 (Wi-Fi-till CH12)	90	90	90	90	60	90	90	90						
C	2378~2480 (Wi-Fi CH13)	90	90	90	90	60	90	90	90						
	2483~2500	90	90	90	90	-	90	90	90						
	2500~2570 (LTE-Reject UL to DL)	90	90	90	90	-	90	90	90						
	2570~2620	90	90	90	90	-	-	90	90						
	@2595(CBA)	-	-	-	-	40	40	-	-						



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<b>JQL</b> JQL Electronic Inc			
<b>MATERIAL:</b> -		<b>DWG NO:</b> JFCQ0791T2690NF	
<b>SURFACE TREATMENT:</b> SLIVER PLATED		DWG BY:	LJ.Zhang
<b>DESCRIPTION:</b> DUPLXER		CHK'D BY:	
		APPV'D BY:	
Unit: mm[inch]		Tolerance: Liner: ±0.25 Anguar: ±0.5°	The First: 
			SCALE 1:4 A4

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Document No.		QR4-700-T-003		REV.		DESCRIPTION		REVISOR		DATE	APPROVED	
REV.		A/0		0				LJ.Zhang		01.26.2015	David	
ITEM		EGSM 900		UMT S2100		LTE 2600		LTE 800		Remarks		
Frequency(MHz)		880~915	925~960	1920~1980	2110~2170	2500~2570	2620~2690	832~862	791~821			
Frequency(MHz)		ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)	ATT(dB)			
Attenuation at Frequencies. From Ant Port to UL/DL Ports	2620~2690 (LTE Reject DL to UL)	90	90	90	90	90	-	90	90			
	@2715	90	90	90	90	90	45	90	90			
	2690~2770	90	90	90	90	60	-	90	90			
	2770~3000	90	90	90	90	60	60	90	90			
	3000~4600(WiMax)	80	80	80	80	80	80	80	80	80		
	4600~4800	30	40	40	40	40	40	30	40			
	4800~5180	30	30	40	40	40	40	30	30			
	5180~5805 (Wi-Fi 5GHz)	50	50	50	50	50	50	50	50	50		
	5805~5940	30	30	30	30	40	40	30	30			
	5940~8070	30	30	30	30	40	40	30	30			
	8070~13000	30	30	30	30	30	30	30	30	30		
Humidity		5~95%										
Absolute		25g/m <sup>3</sup>										
Air pressure		70~106Kpa										
Shock & vibrations		5-20 Hz,0.000298 g <sup>2</sup> Hz;20-150 Hz,-6dB/oct 15Min,0.1gRMS										
Additional Notes		-										

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<b>MATERIAL:</b> -		<b>DWG NO:</b> JFCQ0791T2690NF		
<b>SURFACE TREATMENT:</b> SLIVER PLATED		DWG BY:	LJ.Zhang	01.26.2015
<b>DESCRIPTION:</b> DUPLXER		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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