

### Features

- ADTPX 900/1800/2100-A composed of GSM/DCS/WCDMA band Cavity Triplexer.
- Low Insertion Loss
- Very compact size and low weight.



### Electrical Specifications

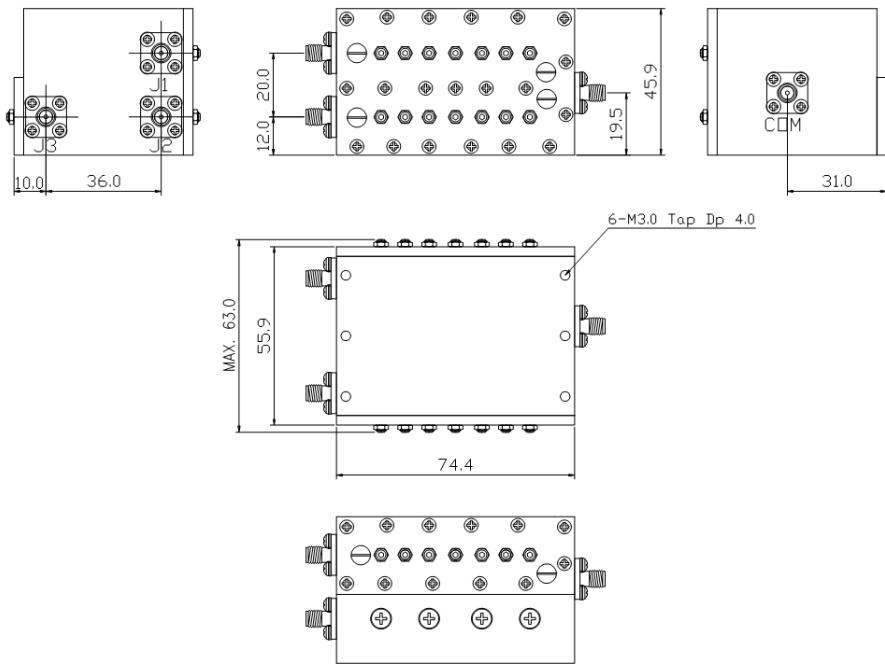
Parameter	Band 900	Band 1800	Band 2100	Remark
	GSM(J1)	DCS(J2)	WCDMA(J3)	
Frequency Range [MHz]	850 ~ 960	1,805 ~ 1,880	2,000 ~ 2,200	
Center Frequency [MHz]	905	1,842.5	2,100	
Bandwidth [MHz]	110	75	200	
Insertion Loss	0.5 dB Max.			
Pass Band Ripple	0.3 dB Max.			
Return Loss	15.0 dB Min.	18.0 dB Min.	15.0 dB Min.	
Attenuation	850 ~ 960 MHz	-	20.0 dB Min.	
	1,805 ~ 1,880 MHz	20.0 dB Min.	-	
	2,000 ~ 2,200 MHz	20.0 dB Min.	15.0 dB Min.	
Power Handling	75 W Max. (TX Port 25 W Max.)			
Impedance	50 Ω			
Operating Temp.	-40 °C ~ + 85 °C			

### Mechanical

Dimensions <sup>1)</sup>	74.4 x 63 x 46 mm
Weight	350 g Max.
RF Connector	SMA Female

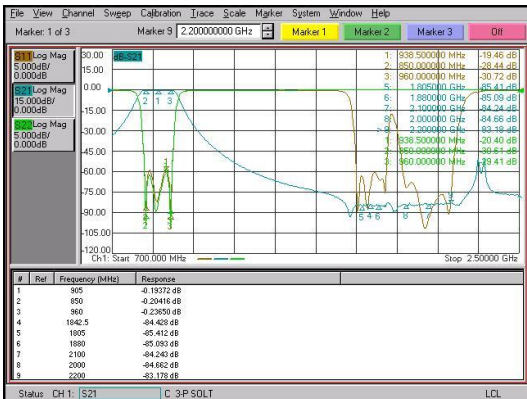
1) Excluding connectors

# Outline Drawing

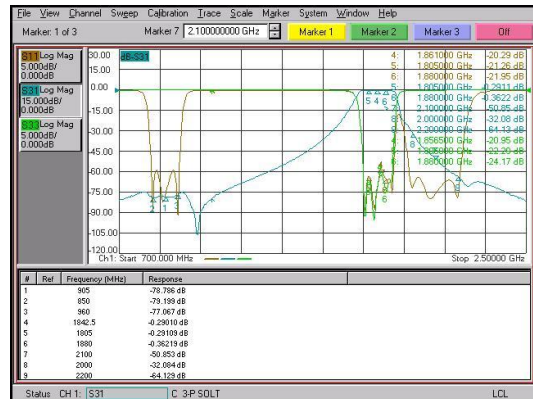


Units : mm, Tolerance : +/- 0.2 mm

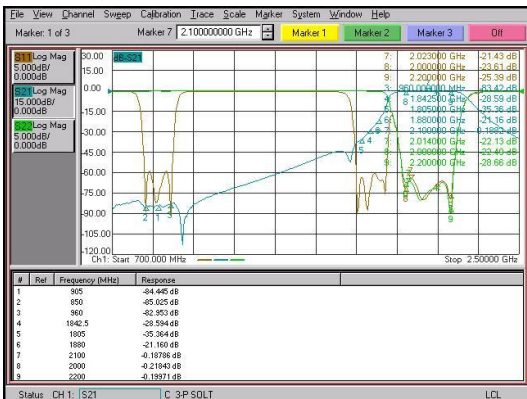
# Typical Response



Band 900



Band 1800



Band 2100

## Test Summary

Parameter	Band 900			Band 1800			Band 2100			Remark	
	GSM(J1)			DCS(J2)			WCDMA(J3)				
	25℃	-40℃	85℃	25℃	-40℃	85℃	25℃	-40℃	85℃		
Frequency Range [MHz]	850 ~ 960			1,805 ~ 1,880			2,000 ~ 2,200				
Center Frequency [MHz]	905			1,842.5			2,100				
Bandwidth [MHz]	110			75			200				
Insertion Loss	0.23	0.21	0.30	0.27	0.19	0.33	0.22	0.18	0.25		
Pass Band Ripple	0.04	0.03	0.04	0.05	0.04	0.06	0.02	0.02	0.02		
Return Loss	20.0	21.0	20.3	26.6	27.7	25.3	20.9	20.9	20.5		
Attenuation	850 ~ 960 MHz		-	-	-	74.6	74.7	74.5	83.9	83.5	83.0
	1,805 ~ 1,880 MHz		84.1	84.2	85.3	-	-	-	25.9	26.2	25.8
	2,000 ~ 2,200 MHz		89.8	89.5	89.1	30.4	29.8	30.7	-	-	-
Power Handling	75 W Max. (TX Port 25 W Max.)										
Impedance	50 Ω										
Operating Temp.	-40 °C ~ + 85 °C										
RF Connector	SMA Female										