



Total Solution Provider in Saw Device

SD1880CPA

FBAR Duplexer For US-PCS
Revision 1: November , 2008



- ☐ Electrical Characteristics
 - ☐ Package Dimensions
 - ☐ Testing Environment
 - ☐ Frequency Characteristics
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□ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	1.0		
Source Impedance (single ended) ⁽¹⁾	Ω	50		
Load Impedance (single ended) ⁽¹⁾	Ω	50		
Package type & size	PA			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.4

Electrical Specification

Tx → Ant		Specifications (+25°C)			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	1850.6 ~ 1909.4	dB	-	1.5	3.0
Passband Ripple	1850.6 ~ 1909.4	dB	-	1.0	2.0
Return Loss	1850.6 ~ 1909.4	dB	9.5	14	-
Attenuation	1930.6 ~ 1989.4	dB	43	48	-
Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	1930.6 ~ 1989.4	dB	-	2.0	3.5
Passband Ripple	1930.6 ~ 1989.4	dB	-	1.1	2.6
Return Loss	1930.6 ~ 1989.4	dB	9.5	16	-
Attenuation	1850.6 ~ 1909.4	dB	50	55	-

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	1850.6 ~ 1909.4	dB	54	57	-
	1930.6 ~ 1989.4	dB	45	50	-



SD1880CPA

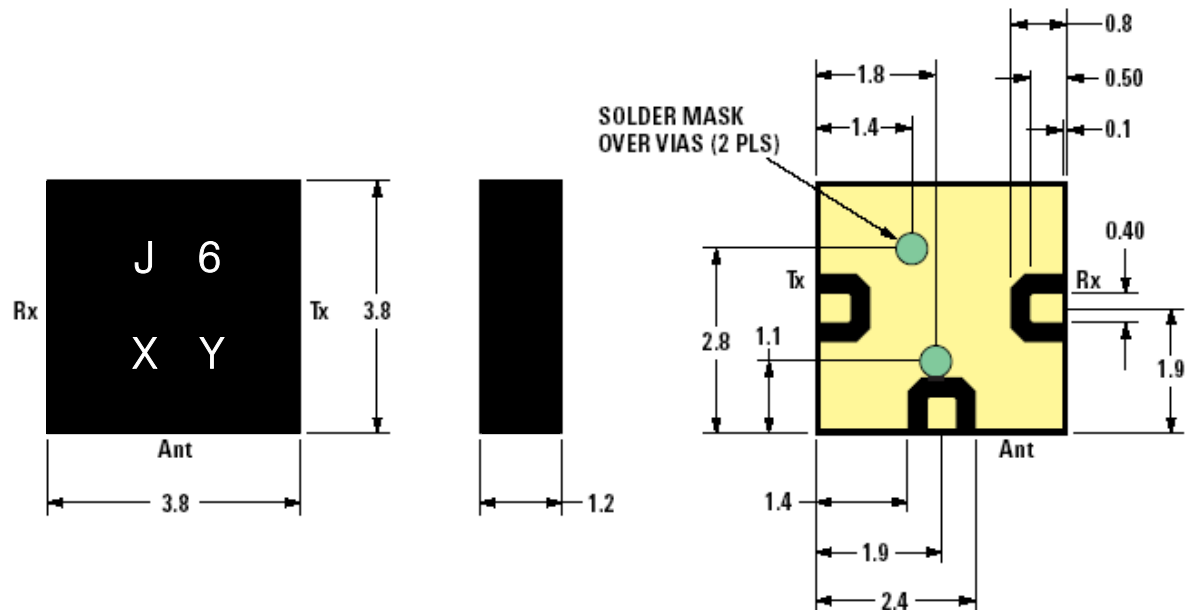
FBAR DUPLEXER For US-PCS

Electrical Specification

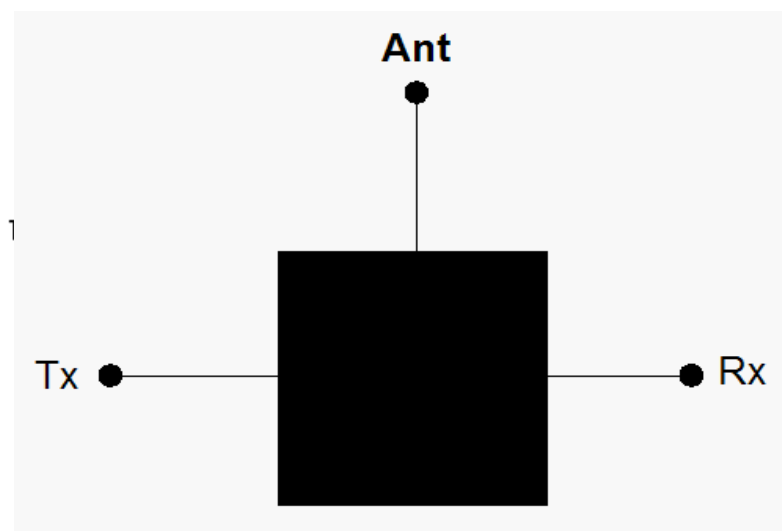
Tx → Ant		Specifications (-30 ~ +85°C)			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	1850.6 ~ 1909.4	dB	-	-	3.5
Passband Ripple	1850.6 ~ 1909.4	dB	-	-	2.8
Return Loss	1850.6 ~ 1909.4	dB	9.5	-	-
Attenuation	1930.6 ~ 1989.4	dB	43	-	-
Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	1930.6 ~ 1989.4	dB	-	-	3.8
Passband Ripple	1930.6 ~ 1989.4	dB	-	-	3.0
Return Loss	1930.6 ~ 1989.4	dB	9.5	-	-
Attenuation	1850.6 ~ 1909.4	dB	50	-	-

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	1850.6 ~ 1909.4	dB	54	57	-
	1930.6 ~ 1989.4	dB	45	50	-

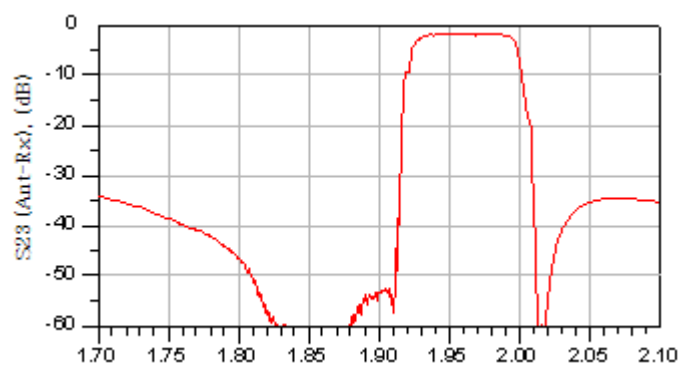
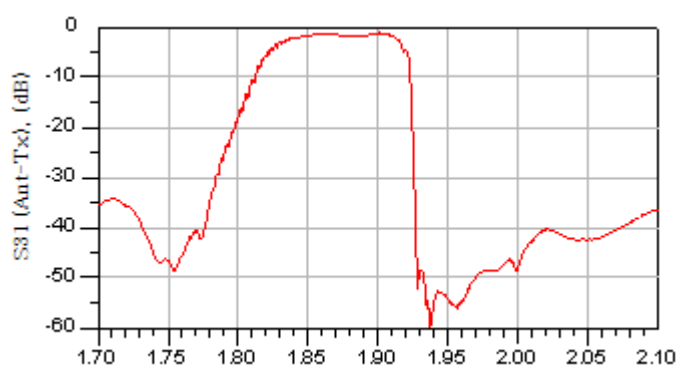
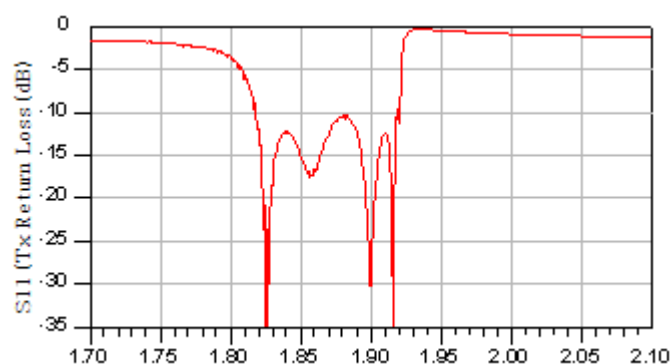
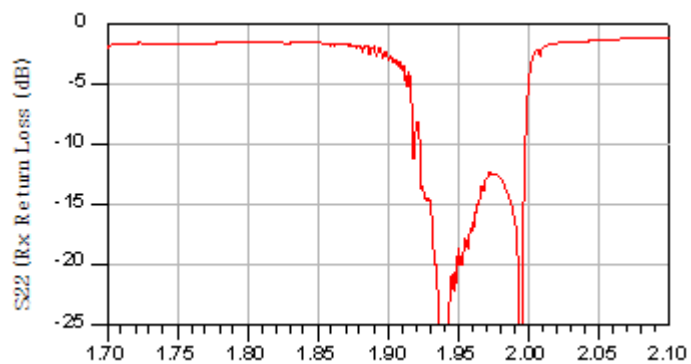
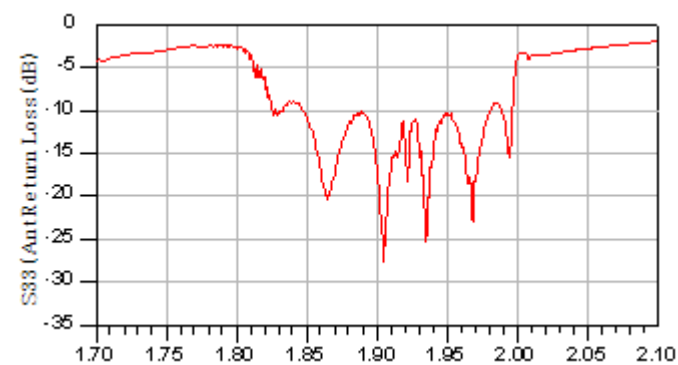
□ Package Dimensions



□ Testing Environment



□ Frequency Characteristics

Tx to Ant, Ant to Rx

Return Loss TX

Return Loss RX

Return Loss Ant

Tx to Rx Isolation
