



Model Number S5456 Diplexer

Rev B
1/25/05



Features:

- Cavity Design
- DC Bias Port
- Coupled Detector Port
- High Isolation

Applications:

- Base Station

Package size:

- 2.0 x 5.5 x 6.25"

(Please see outline for exact dimensions)

Parameter:	Specification:	
Passband Frequency:	RX:	TX:
-AE	3400 – 3430 MHz	3500 – 3530 MHz
-BF	3425 to 3450 MHz	3525 to 3550 MHz
-CG	3450 – 3475 MHz	3550 – 3575 MHz
-DH	3475 to 3500 MHz	3575 to 3600 MHz
Ambient Insertion Loss:	<1.0 dB	<1.5 dB
Return Loss:	>15 dB	>15 dB
Ambient 3 dB Bandwidth -CG, -DH, -BF	-	36.5 MHz Maximum
Ambient 3dB Bandwidth -AE	-	45 MHz Maximum
Rx Attenuation of the Tx Passband:	>50 dB	-
Tx Attenuation of the Rx Passband:		>80 dB
Rejection -35 dB	DC to 2500	DC to 2500
Rejection -45 dB	2500 to FC -469 Mhz	2500 to FC -465 Mhz
Rejection -30 dB	FC-469 to FC-106 MHz	-
Rejection -40 dB	-	FC -465 to FC -235
Rejection -35dB	4000 to 7000 MHz	4000 to 7000 MHz
Amplitude Variation, Ripple:	Less than 0.5 dB over 30 MHz BW	
Group Delay Variation:	<60ns across any 1.75 MHz within operation band	
Power:	5 Watts, Average; 100 Watts, Peak	
DC- Current Injection into ANT Port:	Bias Tee in ANT port. DC bias at +12V and 250 mA	
DC Connector Isolation:	32 dB	
Tx Output Monitoring Port:	Coupling factor of 20 dB+/-1.5 dB	
Operating Temp.:	+5° to +70C	
Storage & Transportation Temp:	-40° to +70C	
Connectors: TX	SMA Female	
Connectors: RX	SMA Female	
ANT Port Connectors:	N-Type Female	



Delta Microwave

1301 Vanguard Dr.
Oxnard, CA. 93033

Phone: 805.240.1044
Fax: 805.240.9544

email: sales@deltamicrowave.com
www.deltamicrowave.com

--	--

By _____ Checked _____