

High Frequency Ceramic Solutions

875 MHz SPT4 GSM Antenna Switch Module

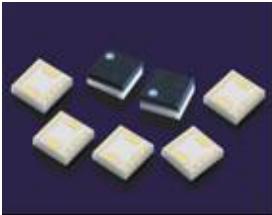
P/N 0875AS43A1850

Detail Specification: 01/23/09

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General Specifications

Part Number	0875AS43A1850
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Reel Quantity	2,000
Operating Temperature	-30 to +85°C
Storage Temperature	+5 ~ +35°C, Humidity 45~75%RH, 6 mos. Max

			GSM850/900 Band	GSM1800/1900 Band
Tx Mode	Frequency (MHz)		824-849 / 880-915MHz	1710-1785/1850-1910MHz
	Insertion Loss	Tx - ANT	1.6 dB max.	1.9 dB max.
	Return Loss	Tx & ANT	10 dB min.	10 dB min.
	Attenuation	Tx - ANT	30 dB min. @ 2 × f _o MHz	23 dB min. @ 2 × f _o MHz
			26 dB min. @ 3 × f _o MHz	22 dB min. @ 3 × f _o MHz
	Isolation	Tx - Rx	21 dB min.	16 dB min.
	Current Consumption		10 mA max.	10 mA max.
	Power Capacity		35 dBm typ.	33 dBm typ.
Rx Mode	Frequency (MHz)		869-894 / 925-960 MHz	1805-1880/1930-1990MHz
	Insertion Loss	ANT - Rx	1.2 dB max.	1.5 dB max.
	Return Loss	Rx & ANT	10 dB min.	10 dB min.
	Isolation	Tx - ANT	21 dB min.	21 dB min.

Control Voltage Application

Mode	Vc1	Vc2	Current
GSM850/900-Tx	2.4 - 2.8 V	0 - 0.1 V	10 mA max.
GSM850/900-Rx	0 - 0.1 V	0 - 0.1 V	--
GSM1800/1900-Tx	0 - 0.1 V	2.4 - 2.8 V	10 mA max.
GSM1800/1900-Rx	0 - 0.1 V	0 - 0.1 V	--

Terminal Configuration

	No	Function	No	Function
	1	GSM1800/1900-Rx	7	GSM850/900-Tx
	2	NC	8	GND
	3	GSM850/900-Rx	9	ANT
	4	Vc1	10	Vc2
	5	GSM1800/1900-Tx	11	NC
	6	GND	12	GND

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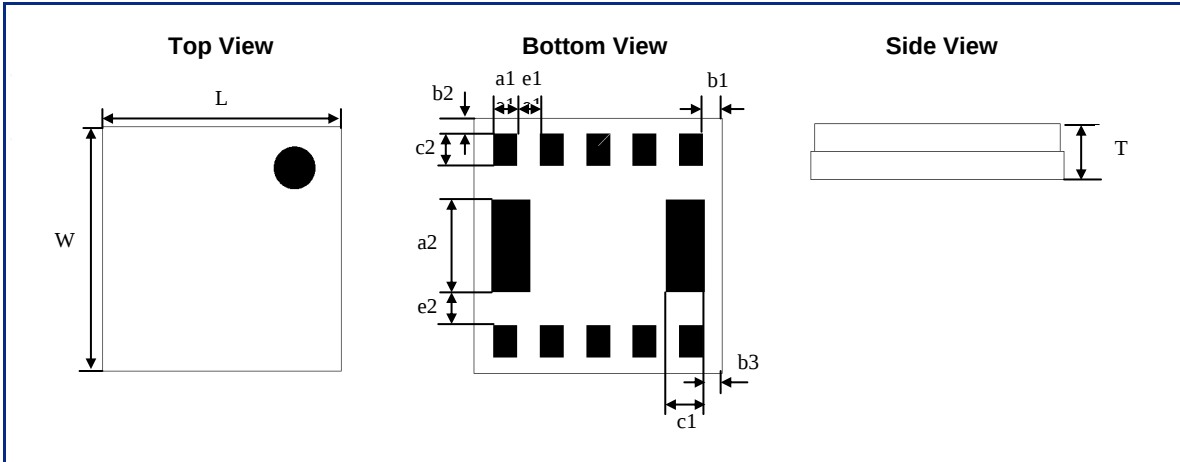
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Mechanical Dimensions



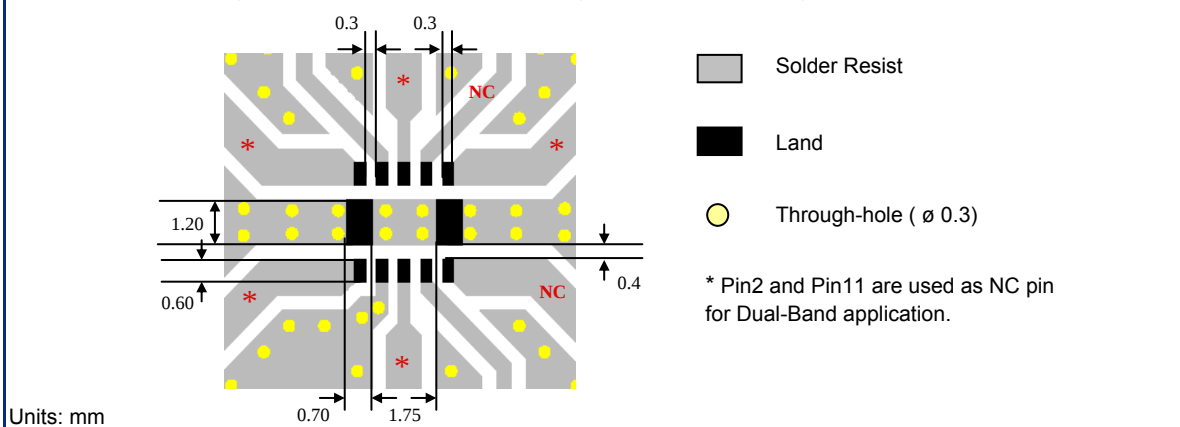
	In	mm
L	0.126 ± 0.008	3.20 ± 0.20
W	0.126 ± 0.008	3.20 ± 0.20
T	0.055 max.	1.4 max.
a1	0.012 ± 0.004	0.30 ± 0.10
a2	0.047 ± 0.004	1.20 ± 0.10
b1	0.010 ± 0.008	0.25 ± 0.20

	In	mm
b2	0.008 ± 0.008	0.20 ± 0.20
b3	0.008 ± 0.008	0.20 ± 0.20
c1	0.020 ± 0.004	0.50 ± 0.10
c2	0.016 ± 0.004	0.40 ± 0.10
e1	0.012 ± 0.004	0.30 ± 0.10
e2	0.016 ± 0.004	0.40 ± 0.10

Mounting Considerations

Mount these devices with brown mark facing up.

* Line width should be designed to provide 50 Ω impedance matching characteristics, depending on PCB material and thickness



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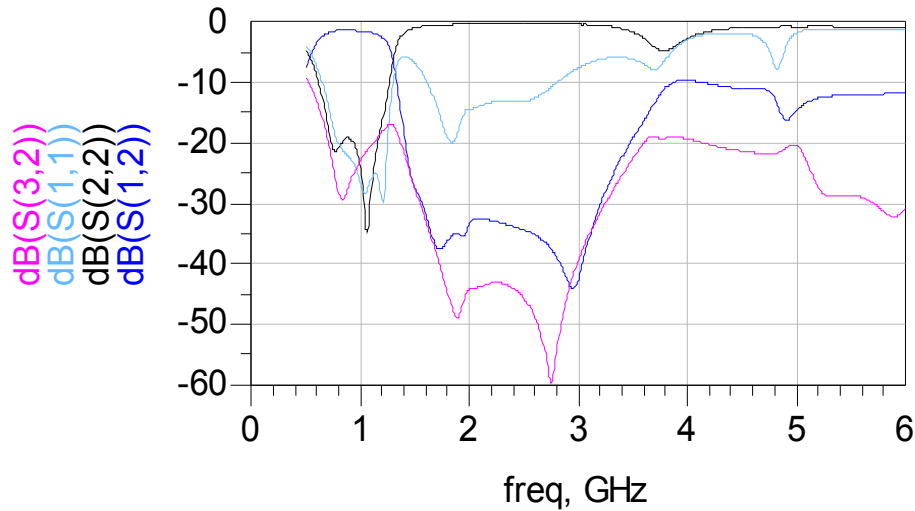
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Typical Electrical Performance (T=25°C)

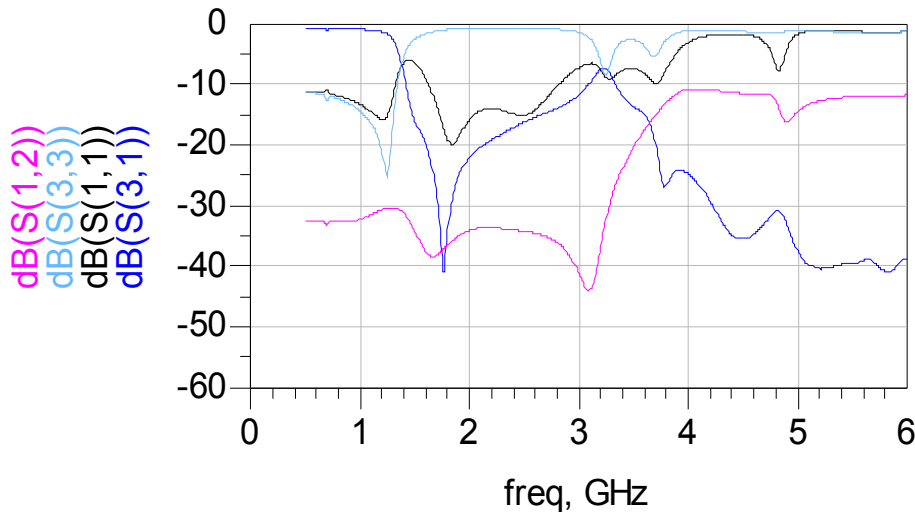
GSM850/900-Tx Mode:

(Port1 : Ant, Port2 : Tx, Port3 : Rx)



GSM850/900-Rx Mode:

(Port1 : Ant, Port2 : Tx, Port3 : Rx)



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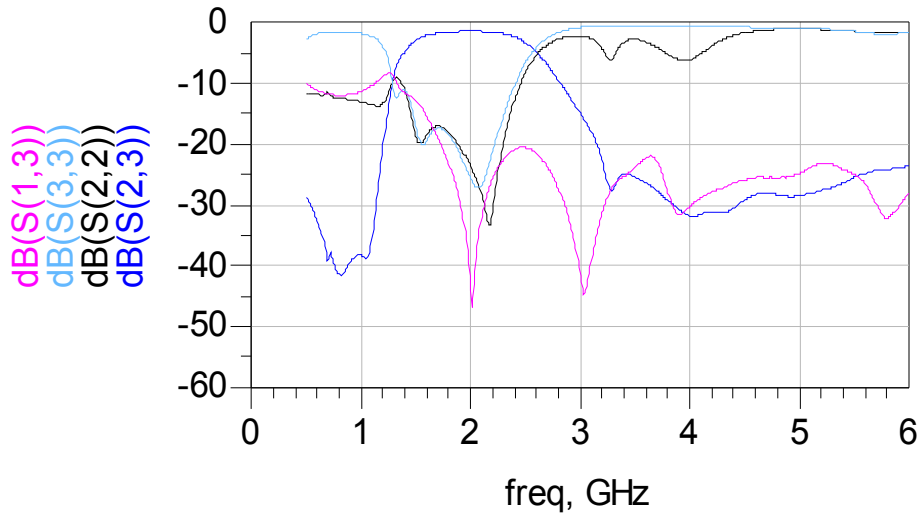
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Typical Electrical Performance (T=25°C)

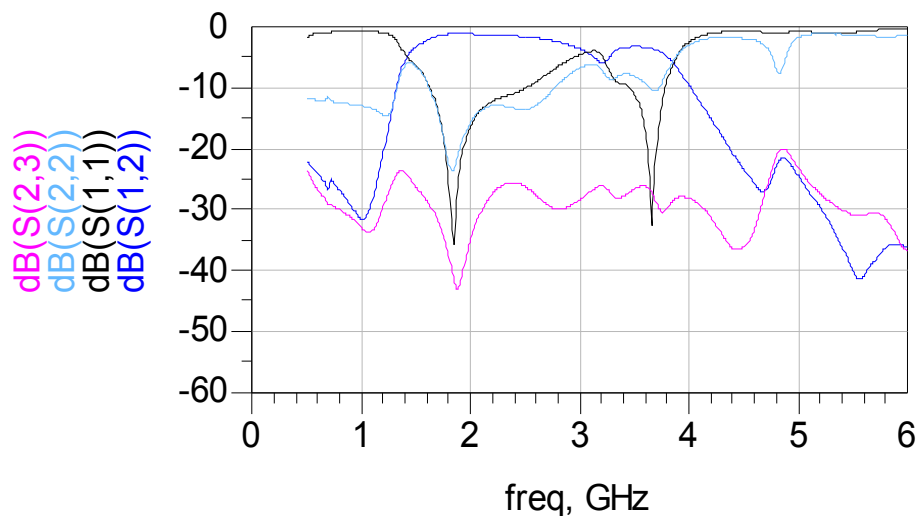
GSM1800/1900-Tx Mode:

(Port1 : Rx, Port2 : Ant, Port3 : Tx)



GSM1800/1900-Rx Mode:

(Port1 : Rx, Port2 : Ant, Port3 : Tx)



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