



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Couplers

0.5-18 GHz

## SMA Maximally Flat Miniature Stripline Coaxial Couplers

- Multi-Octave Frequency Coverage from 0.5 to 18 GHz
- Flat Frequency Response
- Small, Lightweight
- Operational to 105°C without Degradation (125°C storage)
- Designed for MIL Environments



### Specifications

SMA (F), 0.5 to 18 GHz, 50 W

FREQUENCY RANGE (GHz)	MODEL	COUPLING (dB)	DIRECTIVITY (dB min.)	INSERTION LOSS (dB)		VSWR		FREQUENCY SENSITIVITY* (dB max.)	MAXIMUM DEVIATION FROM NOMINAL (dB)	POWER		WEIGHT (max.)	
				EXCLUDING COUPLED POWER	TRUE <sup>‡</sup>	PRIMARY LINE (max.)	SECONDARY LINE (max.)			AVERAGE FORWARD (W)	AVERAGE REFLECTED (W)	oz.	gr.
0.5-2	4242-6	6	22	0.35	2.00	1.20	1.20	±0.5	±1.0	50	2	2.5	71
	4242-10	10	22	0.35	0.90	1.20	1.20	±0.5	±1.0	50	5	2.5	71
	4242-20	20	22	0.35	0.40	1.20	1.20	±0.5	±1.0	50	50	2.8	80
1-3.5	4243-6	6	20	0.35	2.00	1.20	1.20	±0.3	±1.0	50	2	1.5	41
	4243B-10	10	23	0.35	0.90	1.20	1.20	±0.5	±1.0	50	5	1.5	41
	4243-20	20	23	0.35	0.40	1.20	1.20	±0.4	±1.0	50	50	1.8	50
2-8	4244-6	6	20	0.50	2.20	1.30	1.30	±0.4	±1.0	50	2	1.0	29
	4244-10	10	20	0.35	0.90	1.25	1.25	±0.5	±1.0	50	5	1.0	29
	4244-20	20	20	0.35	0.40	1.25	1.25	±0.4	±1.0	50	50	1.0	29
	4244-30	30	20	0.40	0.40	1.25	1.25	±0.5	±1.0	50	50	1.3	35
4-12.4	4245B-6**	6	16	0.50	2.20	1.30	1.30	±0.4	±1.0	50	2	0.7	21
	4245B-10	10	16	0.50	1.20	1.30	1.30	±0.4	±1.0	50	5	0.7	21
	4245B-20	20	15	0.50	0.60	1.30	1.30	±0.5	±1.0	50	50	0.8	24
	4245B-30**	30	15	0.50	0.50	1.30	1.30	±0.5	±1.0	50	50	0.8	24
6-18	4246B-6	6	15	0.80	2.50	1.40	1.40	±0.5	±1.0	50	2	0.9	25
	4246B-10	10	15	0.60	1.20	1.40	1.40	±0.5	±1.0	50	5	0.9	25
	4246B-20	20	15	0.60	0.70	1.40	1.40	±0.5	±1.0	50	50	0.9	25
	4246B-30	30	12	0.60	0.60	1.40	1.40	±0.5	±1.0	50	50	0.9	25

\* Frequency Sensitivity included in coupling value.

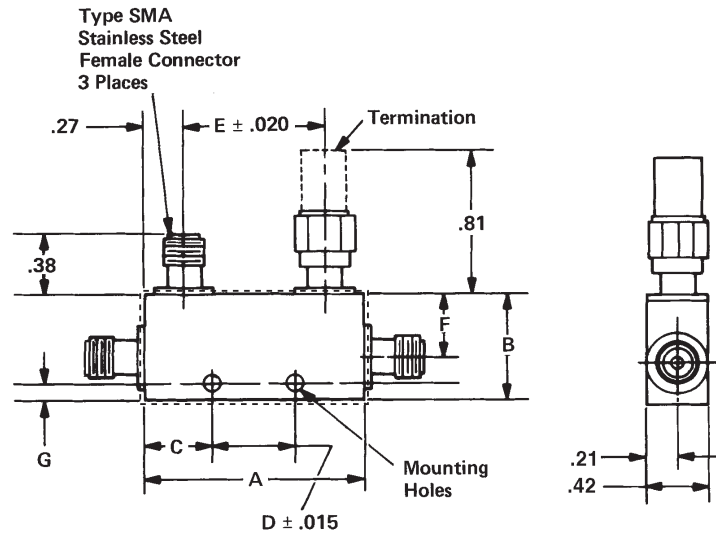
\*\* Special-order devices. Minimum quantity may apply.

‡ Typical true insertion loss at 5, 9, 19 and 29 dB

**NOTE:**

Peak Power for all models is 3 kW

Outline Drawing



MODEL	A	B	C	D	E	F	G	MOUNTING HOLES (THRU)
4242-6, -10	3.54	1.04	.85	1.843	3.000	.77	.36	.146 ±.005
4242-20	4.04	1.04	.77	2.500	3.500	.77	.16	.146 ±.005
4243-6, 4243B-10	2.92	.67	.48	1.968	2.384	.34	.15	.146 ±.005
4243-20	2.92	.85	.59	1.750	2.384	.50	.16	.146 ±.005
4244-6, -10, -20	1.81	.67	.47	.875	1.274	.34	.15	.146 ±.005
4244-30	2.12	.82	.62	.875	1.584	.52	.11	.104 +.004/-0.002
4245B-6, -10, -20, -30	1.26	.58	.44	.375	.719	.34	.11	.104 +.004/-0.002
4246B-6, -10, -20, -30	1.40	.66	.45	.500	.860	.39	.11	.104 +.004/-0.002

Allow .020 max. build-up of sealant per surface.  
Dimensions in inches, unless otherwise specified.

