

Part Number	Capacitance (± 20%, pF)	Chip Type
TCCXXXX4A	0.2 ~ 4.5	А
TCCXXXX4B	0.6 ~ 13	В
TCCXXXX4C	3 ~ 50	С
TCCXXXX4D	1.6 ~ 30	D
TCCXXXX4E	55 ~ 550	Е
TCCXXXX4F	1 ~ 20	F
TCCXXXX4G	8 ~ 110	G
TCCXXXX4H	0.2 ~ 3.7	Н
TCCXXXX4I	2 ~ 27	Ι
TCCXXXX4Q	45 ~ 450	Q
TCCXXXX4S	15 ~ 155	S

Note : The specified capacitors on this list are not

capacitors. Any capacitance or chip type not listed

here, pls contact Transcom for further information!

Transcom's MIS chip capacitors are processed with

bonding. The top plate of the capacitors is 99.99% sputtered gold with a TiW barrier and typical 3 µm

germanium eutectic solders. Epoxy die attach is also

limited to Transcom's capability for MIS chip

DIE ATTACH AND WIRE BONDING

a high quality gold metallization for thermocompression, thermo-sonic or ultrasonic wire

of Au which is suitable for Gold-tin or gold

Thanks!

acceptable.

MIS CHIP CAPACITORS

DESCRIPTION

Transcom's MIS Chip Capacitors are available in a wide range of sizes and capacitance values. They are designed to be used as DC blocks coupling filter elements, RF bypass, microwave circuit resonant elements and a fixed capacitance tuning elements in filters, oscillators, and matching networks.

The devices have long term stability making them suitable for high reliability application. The temperature coefficient is less than 200 ppm/°C, and operation is suitable from -65 °C to 200 °C. Differing from ceramic capacitors, Transcom's MIS Chip Capacitors have high Q and lower insertion loss of 0.1 dB in a 50 W system. Insulation resistance is greater than 10⁶ **MW**. The wafers are supplied on expanded 6" hoop for high volume automated assembly methods and 100% DC tested to assure consistent quality. Capacitors are packaged in gel packs and 100% visual inspection is always available if required.

ELECTRICAL SPECIFICATIONS

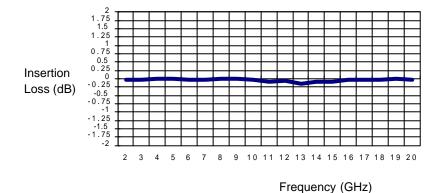
Capacitance Range	0.2 to 550 pF
Capacitance Thickness	$0.004" \pm 0.001"$
Capacitance Tolerance	± 20%
Operating temperature	65 °C to 200 °C
Temperature Coefficient50	ppm/°C Typical
Dielectric Withstanding Voltage	
Insulation Resistance10 ⁶ M	Megohms Typical
Leakage Current	Typical < 1nA

TRANSCOM, INC., 90 Dasoong 7th Road, Tainan Science- Based Industrial Park, Hsin-She Shiang, Tainan County, Taiwan, R.O.C. Web-Site: www.transcominc.com.tw Phone: 886-6-5050086 Fax: 886-6-5051602

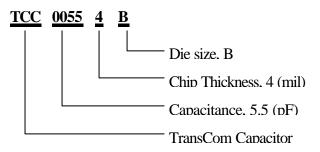


Capacitors REV3_20060517

TYPICAL INSERTION LOSS VS. FREQUENCY (50 pF on 50 ohm system)



PART NUMBER INFORMATION

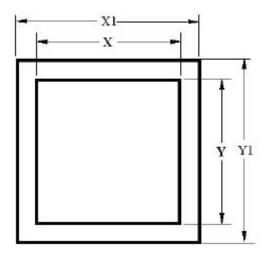


DIMENSIONS IN MILS

Outline	B	С	D	Ε	F	G	K	Q	S
X	7	7	11	47	9	21	15	56	36
X1	11	11	14	51	13	25	18	61	41
Y	7	27	11	47	9	21	15	31	18
Y1	11	31	14	51	13	25	18	36	23

X1, Y1 Tolerance: ±0.5 mil

OUTLINE DRAWINGS (Unit in Mils)

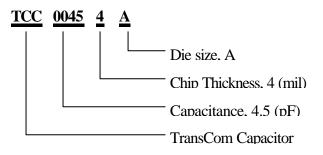


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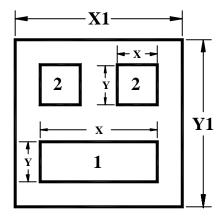
PART NUMBER INFORMATION



DIMENSIONS IN MILS

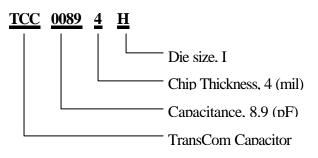
Outline	Α		Ι		
Outilite	1	(2)	1	(2)	
X	7	(2.4)	16	(7)	
X1		11		21	
Y	2.4	(2.4)	7	(7)	
Y1		11		21	

OUTLINE DRAWINGS (Unit in Mils)

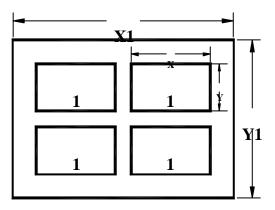


X1, Y1 Tolerance: +1 mil

PART NUMBER INFORMATION



OUTLINE DRAWINGS (Unit in Mils)



DIMENSIONS IN MILS

Outline	Η
X	5
X1	15
Y	3
Y1	11

X1, Y1 Tolerance: ± 0.5 mil