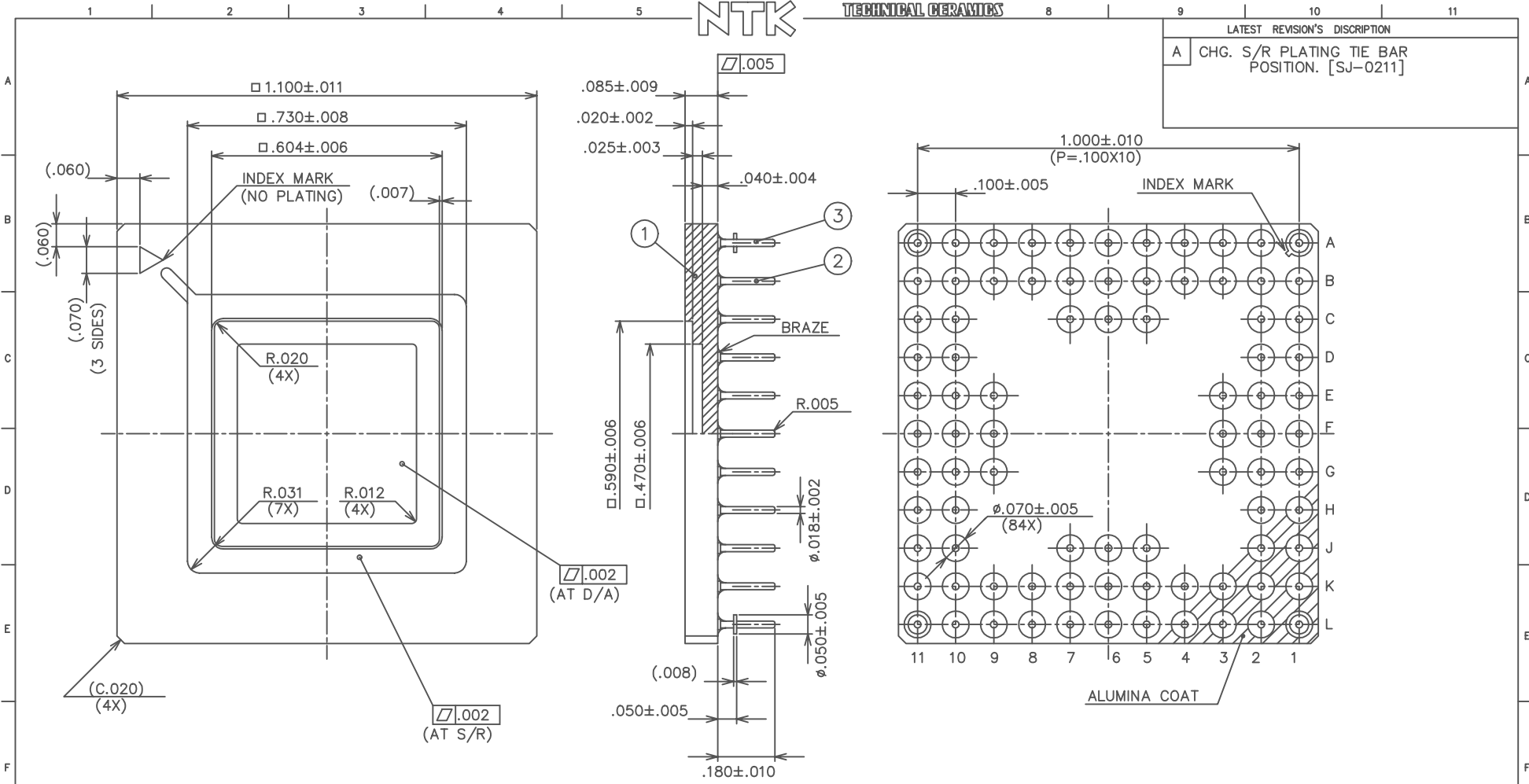


NTK

TECHNICAL CERAMICS

LATEST REVISION'S DESCRIPTION

A CHG. S/R PLATING TIE BAR POSITION. [SJ-0211]



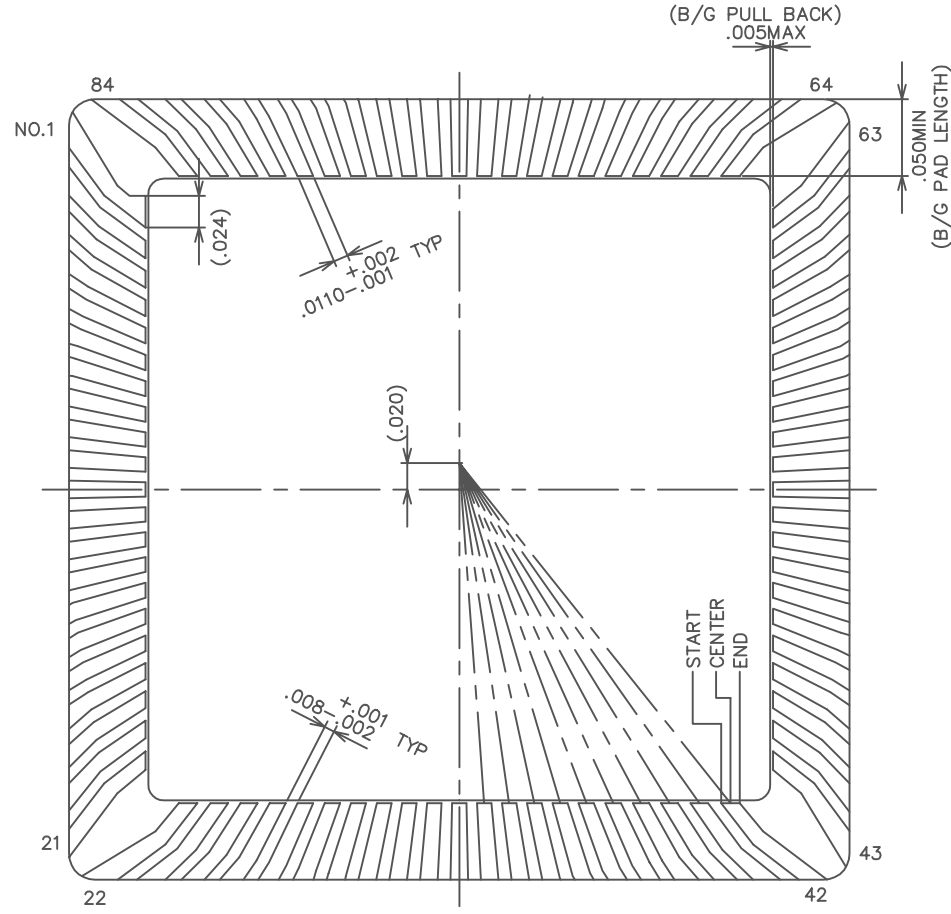
Item	Name	Material	Description	Rev.	Description	Date
3	STAND OFF PIN	ALLOY42				
2	PIN	ALLOY42		A	RE DRAWING	JUL-02-1990
1	CERAMIC	BLACK ALUMINA		ø	NEW DRAWING	JUN-20-1990
UNLESS OTHERWISE SPECIFIED TOLERANCES: € 1%			DRAWN		NTK TECHNICAL CERAMICS	
N.L.T. 2 DECIMALS .XX € 01			CHECKED		NGK SPARK PLUG CO.,LTD	
3 DECIMALS .XXX € 005			S.MAEHARA		TITLE	
CUSTOMER			APPROVED		84 PIN GRID ARRAY	
ZORAN			UNIT		DRAW NO.	
DWG NO.			SCALE		IPK84F1-8630A	
			5.5 1		SIZE A-2 (C)	

MODIFIED DWG NO.

NTK

TECHNICAL CERAMICS

LATEST REVISION'S DIScription



B/F NO.	B/F ANGLE	B/F EDGES		
		START	CENTER	END
11	0.000°	—	.0000	.0055
12	4.185°	.0135	.0190	.0245
13	8.347°	.0325	.0381	.0437
14	12.466°	.0518	.0574	.0631
15	16.520°	.0713	.0771	.0828
16	20.491°	.0912	.0971	.1030
17	24.361°	.1116	.1177	.1237
18	28.117°	.1326	.1389	.1451
19	31.746°	.1543	.1608	.1673
20	35.237°	.1769	.1836	.1903
21	38.585°	.2004	.2074	.2144

THIS TABLE SHOWN 1/8 OF THE TOTAL AND IS SYMMETRICAL TO THE CENTER LINE.

BONDING PADS DETAIL

A	RE DRAWING	JUL-02-1990
ø	NEW DRAWING	JUN-20-1990
Rev.	Description	Date

UNLESS OTHERWISE SPECIFIED TOLERANCES: € 1% N.L.T. 2 DECIMALS .XX €0.01 3 DECIMALS .XXX€0.005	DRAWN K.SUZUKI CHECKED S.MAEHARA	NTK TECHNICAL CERAMICS NGK SPARK PLUG CO.,LTD TITLE B/G PADS DETAIL
CUSTOMER ZORAN	APPROVED	
DWG NO.	UNIT INCH SCALE	DRAW NO. IPK84F1-8630A

MODIFIED DWG NO.	
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CONNECTION TABLE (PAD - PIN)

PAD	PIN	PAD	PIN	PAD	PIN	PAD	PIN
1	B2	22	K2	43	K10	64	B10
2	C2	23	K3	44	J10	65	B9
3	B1	24	L2	45	K11	66	A10
4	C1	25	L3	46	J11	67	A9
5	D2	26	K4	47	H10	68	B8
6	D1	27	L4	48	H11	69	A8
7	F2	28	K6	49	G9	70	C7
8	E2	29	K5	50	G10	71	B7
9	E1	30	L5	51	G11	72	A7
10	E3	31	J5	52	F10	73	B6
11	F3	32	J6	53	F9	74	C6
12	F1	33	L6	54	E9	75	C5
13	G1	34	L7	55	E11	76	A5
14	G2	35	K7	56	E10	77	B5
15	G3	36	J7	57	F11	78	A6
16	H1	37	L8	58	D11	79	A4
17	H2	38	K8	59	D10	80	B4
18	J1	39	L9	60	C11	81	A3
19	K1	40	L10	61	B11	82	A2
20	J2	41	K9	62	C10	83	B3
21	L1	42	L11	63	A11	84	A1

- NOTES:
1. NTK REFERENCE SPECIFICATION: YS-1010.
 2. METALLIZATION: REFRACTORY TUNGSTEN & NICKEL & GOLD.
 3. GOLD/NICKEL PLATE: 80? INCHES MIN ELECTROLYTIC GOLD 100?~350? INCHS ELECTROLYTIC NICKEL. GOLD PLATE PER MIL-G-45204B TYPE III GRADE A. THALLIUM FREE GOLD PLATING BATH,SELREX-125 OR NT APPROVED SUBSTITUTE.
 4. DIE ATTACH PAD BEYOND .015 INCH FROM CAVITY WALL MUST BE FLAT WITHIN .002 T.I.R.MAXIMUM.
 5. LEAD RESISTANCE:
FROM -40~75°C (INCLUDING PIN UP TO PIN STAND-OFF)
PAD NO. 10,11,12,31,32,33,52,53, 54,73,74,75, -----145m? MAX.
PAD NO. 2,4,6,8,14,16,18,20,23, 25,27,29,35,37,39,41,44, 46,48,50,56,58,60,62,65, 67,69,71,77,79,81,83, -----150m? MAX.
PAD NO. 3,5,7,9,13,15,17,19,24, 26,28,30,34,36,38,40,45, 47,49,51,55,57,59,61,66, 68,70,72,76,78,80,82, -----130±90m?.
PAD NO. 1,21,22,42,43,63,64,84, -----300m? MAX.
 6. INTER-LEAD CAPACITANCE AND LOAD CAPACITANCE MUST NOT EXCEED 5 pF.
 7. LEAD TO LEAD CURRENT LEAKAGE MUST NOT EXCEED 5 nA AT 100 VDC.
 8. SEAL RING,DIE ATTACH PAD,AND TOP INDEX MARK, TO BE FLOATING FROM ANY PINS.
 9. BONDING PAD PITCH TOLERANCE TO BE NON-CUMULATIVE FROM CENTER LINE OF BONDING PATTERN.

A	RE DRAWING	JUL-02 -1990
ø	NEW DRAWING	JUN-20 -1990
Rev.	Description	Date

UNLESS OTHERWISE SPECIFIED TOLERANCES: € 1% N.L.T. 2 DECIMALS .XX €0.01 3 DECIMALS .XXX€0.005	DRAWN K.SUZUKI CHECKED S.MAEHARA	NTK TECHNICAL CERAMICS NCK SPARK PLUG CO.,LTD	
CUSTOMER ZORAN	APPROVED	TITLE CONNECTION TABLE	
DWG NO.	UNIT INCH SCALE	DRAW NO. IPK84F1-8630A	SIZE A-2 (C)

MODIFIED DWG NO.	
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