

DO NOT
SCALE FROM
THIS PRINT

DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

BE90C-X-XXXX-X-XX-XXXX

TRANSMISSION TYPE

- M: MICROSTRIP
- S: STRIPLINE

END 2 CONNECTOR
(SEE TABLE 2, SHT 2)

PHASE MATCHING SPEC (RANGE)

- ** -H: HALF PICO-SECOND
- 1: PICO-SECOND
- 2: 2 PICO-SECOND
- 5: 5 PICO-SECONDS
- N: NO PHASE MATCHING

OVERALL ASSEMBLY LENGTH (OAL)
XXXX (MILLIMETERS)
(0100 MIN)
(SEE NOTE 5)

No. OF PHASE MATCHED CABLES

- ☐ -01: (1 CABLE FOR THIS PART NUMBER)
- ☒ -02: (2 CABLES FOR THIS PART NUMBER)
- ☒ -04: (4 CABLES FOR THIS PART NUMBER)
- ☒ -06: (6 CABLES FOR THIS PART NUMBER)
- ☒ -08: (8 CABLES FOR THIS PART NUMBER)
- ☒ -12: (12 CABLES FOR THIS PART NUMBER)
- ☒ -16: (16 CABLES FOR THIS PART NUMBER)

(☐ = ONLY AVAILABLE WITH -N OPTION)
(☒ = NOT AVAILABLE WITH -N OPTION)
(** = ONLY FOR CABLE LENGTHS ≤ 610MM)

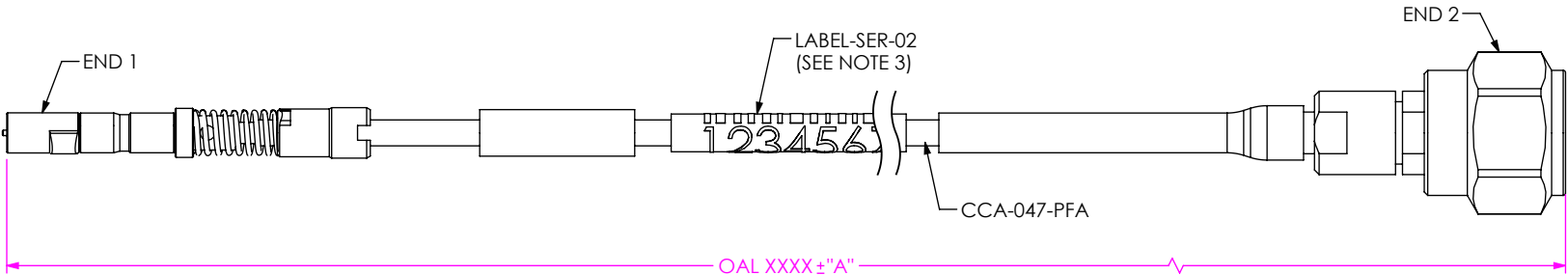


FIG 1
BE90C-S-13SP-X-02-XXXX SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

TABLE 1	
OVERALL LENGTH	"A"
0152-0200 [5.98-7.87]	+3.0 [.12] / -0.0 [0.00]
0201-0500 [7.91-19.69]	+5.0 [.20] / -0.0 [0.00]
0501-9999 [19.72-39.37]	+10.0 [1.39] / -0.0 [0.00]

- NOTES:
- CONNECTORS TO BE ORIENTED ACCORDING TO CO-RF-WI-3048-M.
 - CABLE ASSEMBLY TO HAVE PROTECTIVE CAP ASSEMBLED ON EACH END AND TO BE INDIVIDUALLY PACKAGED IN ESD BAG.
 - ASSEMBLY TO BE 100% TESTED FOR RETURN LOSS AND INSERTION LOSS, LABEL EACH INDIVIDUAL CABLE ASSEMBLY WITH 1 LABEL-SER-02. RETURN LOSS SPECIFICATION IS EQUAL TO THE HIGHEST END OPTION LIMIT.
 - NOTE DELETED.
 - CABLE LENGTHS LONGER THAN 1000 MILLIMETERS ARE NOT SUPPORTED BY S.I. DATA.

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
GEN 4 BULLSEYE PROBE CABLE ASSEMBLY

DWG. NO.
BE90C-X-XXXX-X-XX-XXXX

BY: ANN H 9/26/2023 SHEET 1 OF 10

TABLE 2

END OPTION	SERIES	GENDER	FINISH			CONNECTOR KIT P/N	FIGURE	PROTECTIVE CAP COLOR
			CENTER CONTACT	OUTER CONTACT	CABLE BODY			
-10BJ	1.00 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF10-J-C-VP-047A-BS-X	SHT 4, FIG 4	WHITE
-10SP	1.00 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF10-P-C-VP-047A-SS-X	SHT 4, FIG 5	WHITE
-13BJ	1.35 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF13-J-C-VP-047A-BS	SHT 5, FIG 6	GRAY
-13SP	1.35 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF13-P-C-VP-047A-SS	SHT 5, FIG 7	GRAY
-18SP	1.85 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-P-C-EP-047A-SS	SHT 6, FIG 8	BLUE
-18SJ	1.85 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF18-J-C-EP-047A-SS	SHT 6, FIG 9	BLUE
-24SP	2.4 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF24-P-C-EP-047A-SS	SHT 7, FIG 10	GREEN
-24SJ	2.4 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF24-J-C-EP-047A-SS	SHT 7, FIG 11	GREEN
-92SP	2.92 MM	PLUG	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-P-C-EP-047A-SS	SHT 8, FIG 12	YELLOW
-92SJ	2.92 MM	JACK	50μ" GOLD	PASSIVATED	PASSIVATED	PRF92-J-C-EP-047A-SS	SHT 8, FIG 13	YELLOW
-M0SJ	SMPM	JACK	30μ" GOLD	10μ" GOLD	3μ" GOLD	PRFM0-J-C-HG-047A-SD	SHT 9, FIG 14	GRAY
-00SJ	SMP	JACK	50μ" GOLD	50μ" GOLD	50μ" GOLD	PRF00-J-C-EE-047A-SD-X	SHT 9, FIG 15	WHITE

TABLE 3

END OPTION	MAXIMUM VSWR	MAXIMUM RETURN LOSS	FREQUENCY
-10BJ	2.0:1	9.54 dB	10 MHz TO 90 GHz
-10SP	2.0:1	9.54 dB	10 MHz TO 90 GHz
-13BJ	1.183	21.53 dB	DC TO 90 GHz
-13SP	1.183	21.53 dB	DC TO 90 GHz
-18SP	1.183	21.53 dB	DC TO 67 GHz
-18SJ	1.183	21.53 dB	DC TO 67 GHz
-24SP	1.162	22.51 dB	DC TO 50 GHz
-24SJ	1.162	22.51 dB	DC TO 50 GHz
-92SP	1.162	22.51 dB	DC TO 40 GHz
-92SJ	1.162	22.51 dB	DC TO 40 GHz
-M0SJ	1.183	21.53 dB	DC TO 40 GHz
-00SJ	1.118	25.08 dB	DC TO 26.5 GHz
	1.225	19.90 dB	26.5 GHz TO 50 GHz

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 PHONE: 812-944-6733 FAX: 812-948-5047
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DESCRIPTION:
 GEN 4 BULLSEYE PROBE CABLE ASSEMBLY

DWG. NO.
BE90C-X-XXXX-X-XX-XXXX

BY: ANN H 9/26/2023 SHEET 2 OF 10

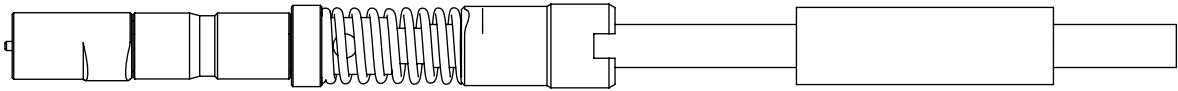


FIG 2
-END T SHOWN
(FOR -S TRANSMISSION TYPE)
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

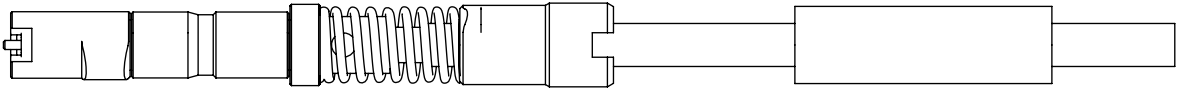


FIG 3
-END T SHOWN
(FOR -M TRANSMISSION TYPE)
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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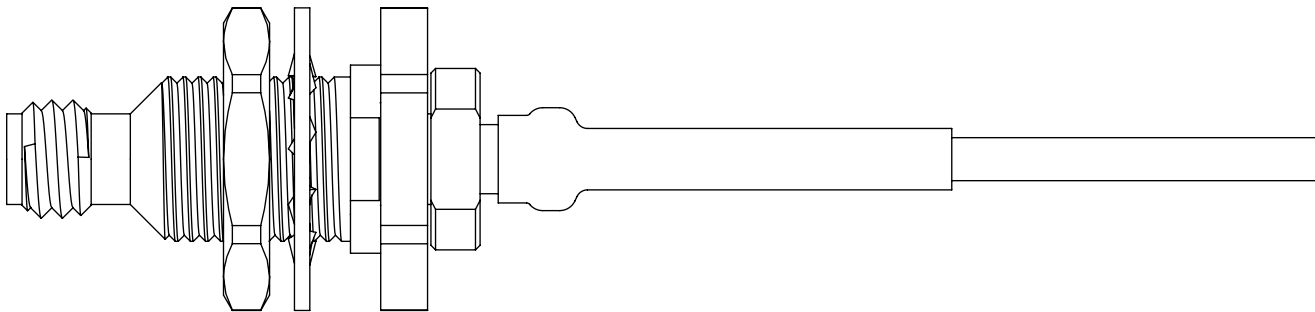


FIG 4
-10BJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

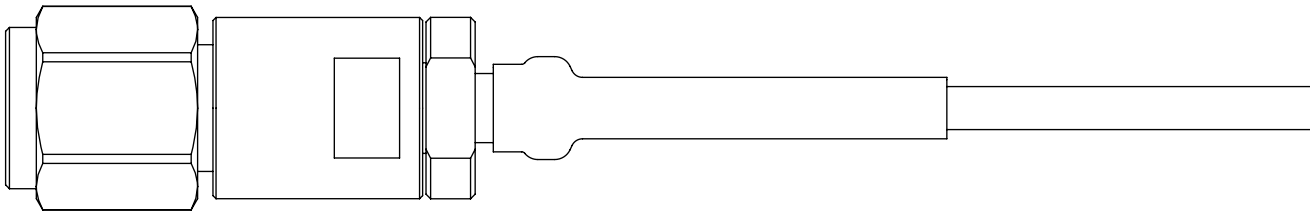


FIG 5
-10SP SHOWN
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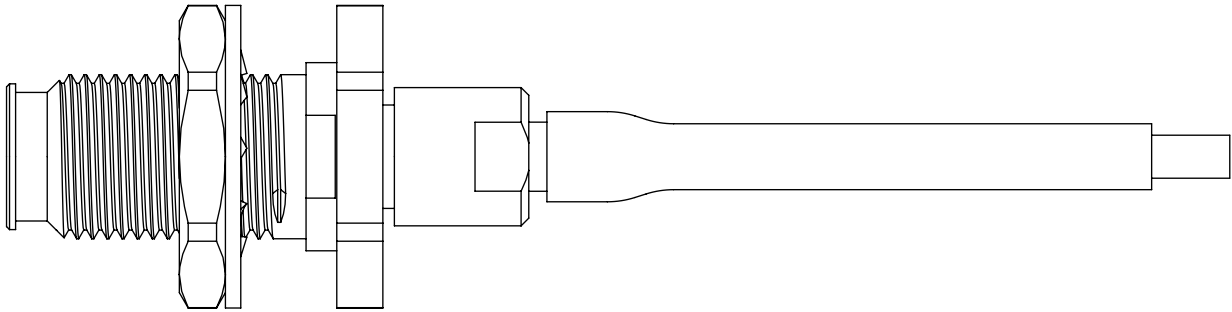


FIG 6
-13BJ SHOWN
(PROTECTIVE CAPS NOT SHOWN FOR CLARITY)

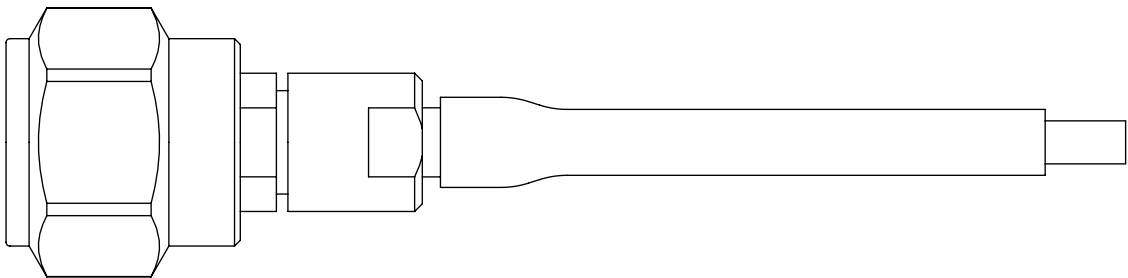


FIG 7
-13SP SHOWN
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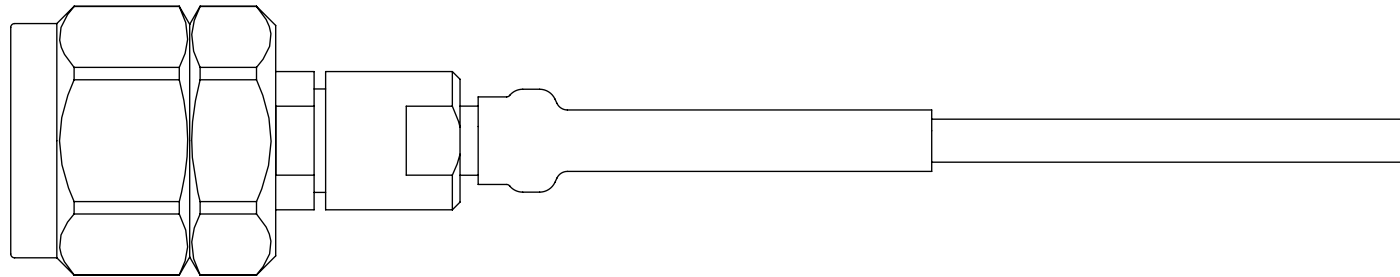


FIG 8
-18SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



FIG 9
-18SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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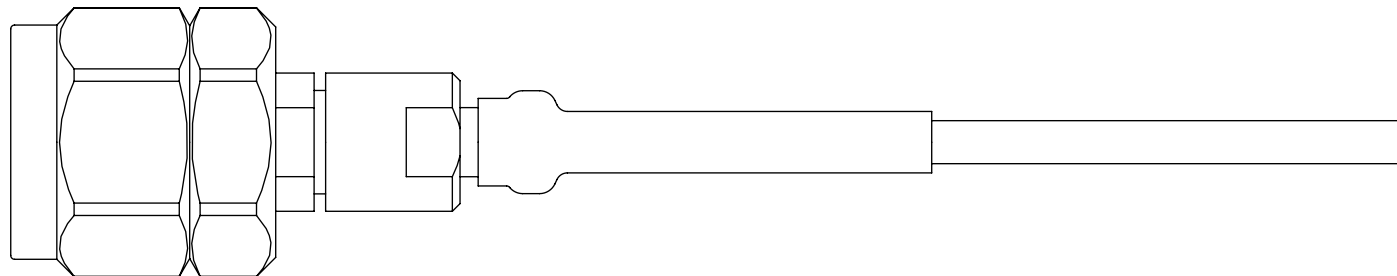


FIG 10
-24SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



FIG 11
-24SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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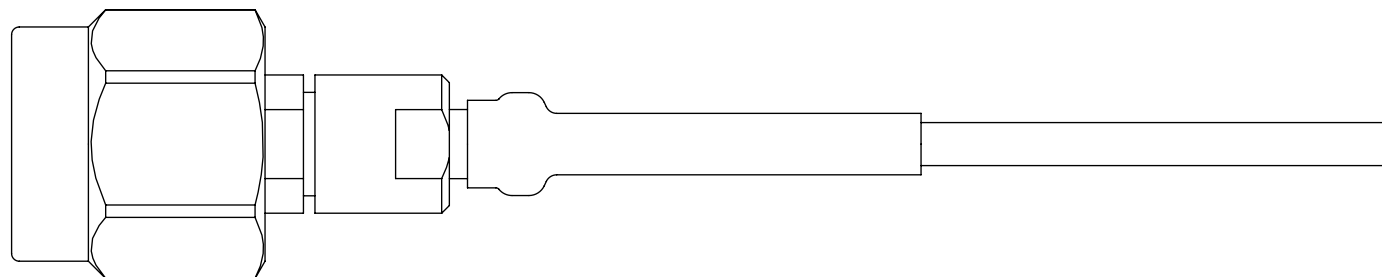


FIG 12
-92SP SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)



FIG 13
-92SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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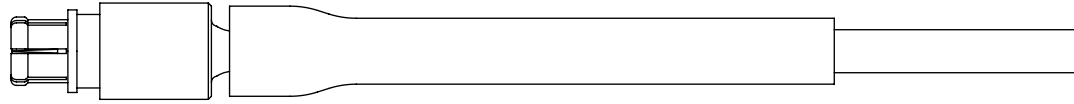


FIG 14
-M0SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

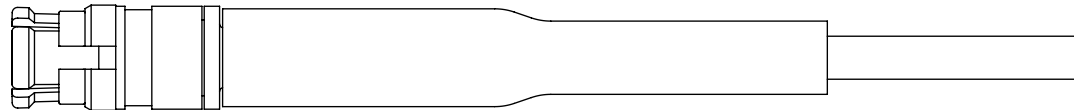


FIG 15
-00SJ SHOWN
(PROTECTIVE CAP NOT SHOWN FOR CLARITY)

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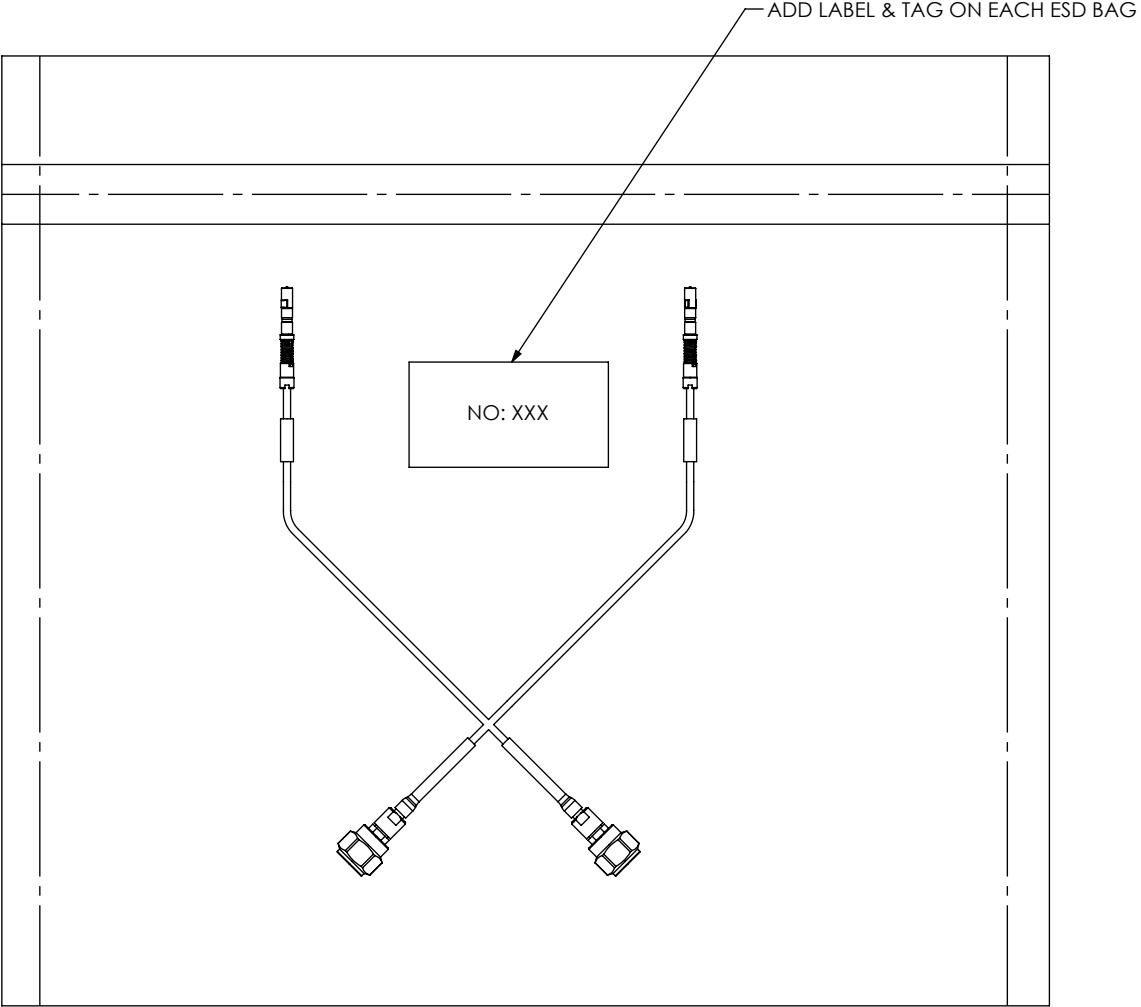
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BE90C-X-XXXX-X-XX-XXXX

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PACKAGING VIEW
(SEE NOTE 5)
(BE90C-M-13SP-X-02-XXXX SHOWN IN ESD BAG)

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