

Technical drawing of a 5.56mm NATO ball cartridge. The drawing shows the cartridge with its dimensions and markings. The dimensions are as follows:

- Overall length: .532
- Distance from base to primer: .237
- Distance from base to primer (alternative): .231
- Distance from base to primer (alternative): .300
- Distance from base to primer (alternative): .295
- Distance from base to primer (alternative): .033
- Distance from base to primer (alternative): .029
- Distance from base to primer (alternative): .229
- Distance from base to primer (alternative): .209
- Distance from base to primer (alternative): .094
- Distance from base to primer (alternative): .091

The markings on the cartridge are as follows:

- 1ST COLOR BAND SEE TABLE-I
- 2ND COLOR BAND SEE TABLE-I
- 3RD COLOR BAND SEE TABLE-I
- METAL STAMP TRADEMARK PER TABLE-I (LOCATION OPTIONAL)
- MATERIAL IDENTIFICATION CHARACTERS PER TABLE-I (OPPOSITE TSEI TRADEMARK)

The drawing also shows the following dimensions for the bullet and case:

- Bullet diameter: $\phi .070$
- Case diameter: $\phi .068$
- Case diameter: $\phi .048$
- Case diameter: $\phi .046$
- Case diameter: $\phi .041$
- Case diameter: $\phi .039$

2		REV F		SH 1	DWG NO. ***-2020-106*
REVISIONS					
ZONE	LTR	DESCRIPTION	DATE	APPD	
/	B	REDRAWN & REVISED PER E.O. 15651	8-6-03	F.T.	
/	C	REVISED PER E.O. 18741	1-5-08	L.B.O	
/	D	REVISED PER E.O. 18833	2-18-08	L.B.O	
/	E	REVISED PER E.O. 21376	1-23-12	K.C.	
/	F	REVISED PER E.O. 22423	1/15/14	K.C.	

(OPPOSITE TSEI TRADEMARK)

TABLE-I

MILITARY PART NUMBER	PART NUMBER	MATERIAL	STAMPED IDENTIFICATION CHARACTER	STAMPED LOGO	COLOR BANDS			FINISH
					1ST	2ND	3RD	
M39029/87-474	015-2020-106K	THERMOCOUPLE, TYPE JN, PER ANSI MC96.1 AND ASTM E 230	JN	 (TSEI)	YELLOW	VIOLET	YELLOW	NONE
_____	019-2020-106K				NONE			
M39029/87-475	015-2020-106A	THERMOCOUPLE, TYPE KN, PER ANSI MC96.1 AND ASTM E 230	KN		YELLOW	VIOLET	GREEN	
_____	019-2020-106A				NONE			
M39029/87-476	015-2020-106C	THERMOCOUPLE, TYPE KP, PER ANSI MC96.1 AND ASTM E 230	KP		YELLOW	VIOLET	BLUE	
_____	019-2020-106C				NONE			
_____	029-2020-106C		NONE	NONE				
M39029/87-477	415-2020-106I	THERMOCOUPLE, TYPE JP, PER ANSI MC96.1 AND ASTM E 230	JP	 (TSEI)	YELLOW	VIOLET	VIOLET	CAD. 
_____	419-2020-106I				NONE			

1. www.tri-starelectronics.com

NOTES: (UNLESS OTHERWISE SPECIFIED)

NEXT ASSEMBLY	USED ON
APPLICATION	

QTY REQ'D		FSCM NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION		ITEM NO.					
PARTS LIST																	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: ANGLES .XX .XX ±30' ±.01 ±.005 DO NOT SCALE DRAWING MATERIAL:  TREATMENT:  FINISH: REF: 				CONTRACT NO.		TRI-STAR ELECTRONICS INT'L, INC. 2201 ROSECRANS AVENUE, EL SEGUNDO, CA 90245											
				RATING:													
				APPROVALS		DATE		DWG TITLE CONTACT, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, THERMOCOUPLE									
				DRAWN: F. RODRIGUEZ		1-3-08											
				CHECKED:				SIZE		CAD CODE		DWG NO.		REV			
				APPROVED:		L.B.O		1-5-08		A		55104		***-2020-106*		F	
				APPROVED:						SCALE: NONE		CAD NO: 6.25X-		SHEET 1		OF 1	